FRONT END WEB TECHNOLOGIES (R20CC21L3)

LAB MANUAL

INDEX

INSTITUTE-VISION AND MISSION

VISION:

To emerge as a Centre of excellence in technical education with a blend of effective student centric teaching learning practices as well research for the transformation of lives and community.

MISSION:

M1: Provide the best class infrastructure to explore the field of engineering and research.

M2: Build a passionate and a determined team of faculty with student centric teaching, imbibing experiential and innovative skills

M3: Imbibe lifelong learning skills, entrepreneurial skills and ethical values in students for addressing societal problems.

DEPARTMENT VISION AND MISSION

VISION:

To become a centre of excellence in nurturing the quality computer science & engineering professionals embedded with software knowledge, aptitude for research and ethical values to cater to the needs of industry and society.

MISSION:

The department of computer science and engineering is committed to

M1: Mould the students to become software Professionals, researchers and entrepreneurs by providing advanced laboratories.

M2: Impart high quality professional training to get expertize in modern software tools and technologies to cater to the real time requirements of the industry.

M3: Inculcate team work and lifelong learning among students with a sense of societal and ethical responsibilities.

PROGRAM OUTCOMES

Graduates of the computer science and engineering program are expected to have the following.

1. Ability to apply knowledge of mathematics, science and engineering to solve complex computer science and engineering problems.
2. Ability to understand, formulate complex computer science problems and analyse to derive substantiated conclusions.
3. Ability to possess thorough knowledge on operating systems and architecture, software engineering and programming languages to design and develop computer systems.
4. Ability to demonstrate excellent programming analytical, logical and problem solving skills and can participate effectively in multidisciplinary team.
5. Ability to use modern tools to develop the computer science projects effectively and efficiently.
6. Ability to understand the impact of computer science & engineering in a global, economic, environmental and societal context work.
7. Ability to demonstrate the knowledge of computer science and engineering for the sustainable development of society.
8. Ability to demonstrate his understanding of professional and ethical responsibly while developing computer science applications.
9. Ability to work as a team member/leader to accomplish the intended task.
10. Ability to communicate effectively on complex engineering problems and continuously update their knowledge on contemporary issues.
11. Ability to use modern tools to develop software projects.
12. Engage in lifelong learning and cater the needs of software industry.

PROGRAM SPECIFIC OUTCOMES (PSOs)

I. Apply mathematical and scientific skills in numerous areas of computer science and Engineering to design and develop software based systems.

II. Acquaint module knowledge on emerging trends of modern era in Computer Science and Engineering

III. Promote novel applications that meet the needs of entrepreneur, environmental and social issues.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The graduates of the programme are able to:

PEO1: Apply the knowledge of mathematics, science and engineering fundamentals to identify and solve computer science and engineering problems.

PEO2: Use various software tools and technologies to solve problems related to academia, industry and society.

PEO3: Work with ethical and moral values in the multi-disciplinary teams and can communicate effectively among team members with continuous learning.

PEO4: Pursue higher studies and develop their career in software industry.

GENERAL LABORATORY INSTRUCTIONS

1. Students are advised to come to the laboratory at least 5 minutes before (to the starting time), those who come after 5 minutes will not be allowed into the lab.

2. Plan your task properly much before to the commencement, come prepared to the lab with the synopsis / program / experiment details.

3. Student should enter into the laboratory with:

a. Laboratory observation notes with all the details (Problem statement, Aim, Algorithm, Procedure, Program, Expected Output, etc.,) filled in for the lab session.

b. Laboratory Record updated up to the last session experiments and other utensils (if any) needed in the lab.

c. Proper Dress code and Identity card.

4. Sign in the laboratory login register, write the TIME-IN, and occupy the computer system allotted to you by the faculty.

5. Execute your task in the laboratory, and record the results / output in the lab observation note book, and get certified by the concerned faculty.

6. All the students should be polite and cooperative with the laboratory staff, must maintain the discipline and decency in the laboratory.

7. Computer labs are established with sophisticated and high end branded systems, which should be utilized properly.

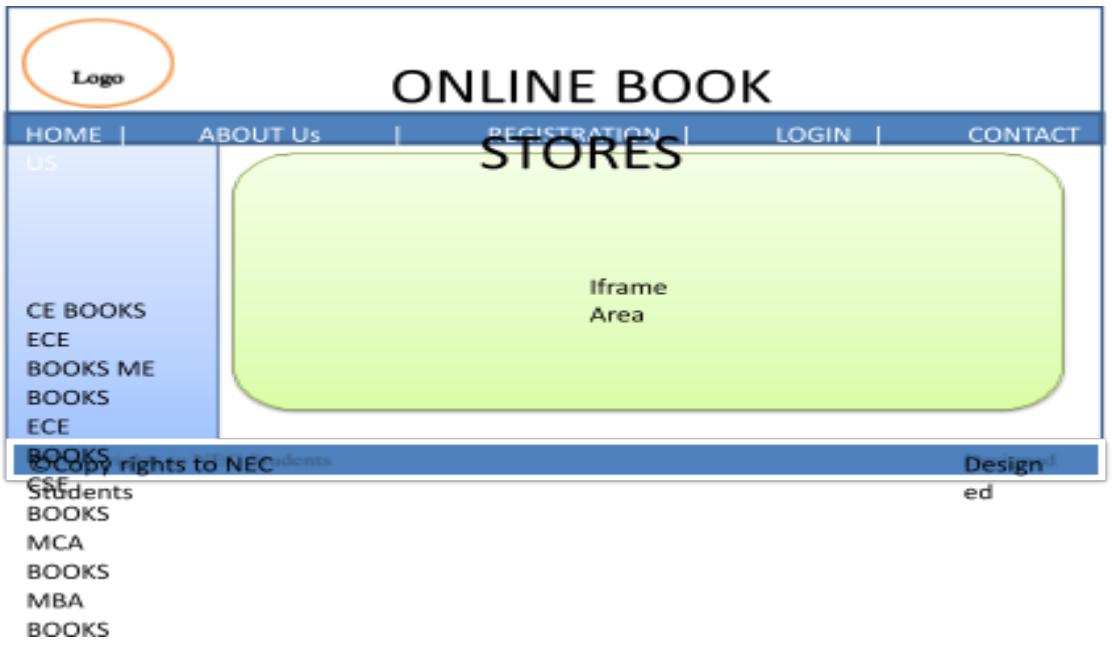
8. Students / Faculty must keep their mobile phones in SWITCHED OFF mode during the lab sessions. Misuse of the equipment, misbehaviours with the staff and systems etc., will attract severe punishment

.

9. Students must take the permission of the faculty in case of any urgency to go out ; if anybody found loitering outside the lab / class without permission during working hours will be treated seriously and punished appropriately.

10. Students should LOG OFF/ SHUT DOWN the computer system before he/she leaves the lab after completing the task (experiment) in all aspects. He/she must ensure the system / seat is kept properly.

LIST OF EXPERIMENTS:



Lab 1:

Create the following web

1. Welcome.html

It explains about website (Hint: Heading the website (Preferable H1, Describe website) it includes minimum two paragraphs)

2. Aboutus.html (Hint: About owner of website)
3. Contactus.html
4. List.html (Hint: Mention List of courses)

Lab 2:

a. Create web pages for each course. Example cse.html (Hint: It contains Heading and List of subjects in tabular form)

Example

SNo	Title Book	Author	Publisher	Price	Image
--	--	--	--	--	--

b. Create Registration and Login forms

Registration Form: It contains Student Name, Roll Number, Password, Gender, Email ID, PhoneNumber, opted course and languages known.

Login Form: It contains roll number as User ID, password, submit button and cancel button.

Lab 3:

a. Apply CSS 3 on web-pages created on Lab 1 and Lab2.
b. Make use of the selectors like class, id, html elements, pseudo classes and elements

Lab 4:

a. Apply validation on Registration and Login forms.
b. In contactus.html web-page add Google maps.

Lab 5:

a. Design HTML5 web page by embedding Audio, Video elements.
b. Write HTML5 and JavaScript code to draw Arc, Circle, Rectangle and Triangle using Canvas.

Lab 6: Bootstrap Concepts on Grid System, Menus

Lab 7: Create index.html page and design it as shown in above screen (Hint: Use Bootstrap Grid System, Horizontal and vertical menus, footer, table etc.)

Lab 8: Write a jQuery code to make draggable Rectangle

Lab 9: Write jQuery code to demonstrate the usage of important options disabled, delay, distance and clone in the drag function of jQuery UI.

Lab 10: Write jQuery code to demonstrate three options addClass, disable and tolerance in the drop function of jQuery UI.

Lab 11: Write jQuery code to demonstrates the use of two options delay and distance of selectable() method.

Lab 12: Write jQuery code to demonstrate Accordion and Date Picker.

Lab 13: Virtual Lab : www.w3schools.com

ADDITIONAL EXPERIMENTS:

1. Write an HTML page with Javascript that takes a number from one text field in the range 0-999 and display it in other text field in words.If the number is out of range ,it shold show “out of range” and if it is not a number ,it should show “not a number” message in the result box.

2. Write jQuery code to demonstrate method chaining?

3. Write an example program for jQuery - AJAX get() and post() Methods

SOLUTIONS FOR PROGRAMS

ChapName	Name	ScNo	Dur
Topic	**AIM :**	**S.No**	**Duration**
LAB 1	**Create the following web** 1. Welcome.html It explain about website	1	30 mins
LAB 1	2. Aboutus.html (Hint: About owner of website)	2	30 mins
LAB 1	3. Contactus.html	3	30 mins
LAB 1	4. List.html (Hint: Mention List of courses)	4	30 mins
LAB 2	a. Create web pages for each course. Example cse.html (Hint: It contains Heading and List of subjects in tabular form) Example	5	50 mins
LAB 2	b. Create Registration and Login forms Registration Form: It contains Student Name, Roll Number, Password, Gender, Email ID, Phone Number, opted course and languages known. Login Form: It contains roll number as User ID, password, submit button and cancel button.	6	100 mins
LAB 3	Apply CSS 3 on web-pages created on Lab 1 and Lab2. Make use of the selectors like class, id, html elements, pseudo classes and elements.	7	150 mins
LAB 4	a. Apply validation on Registration and Login forms.	8	75 mins
	b. In contactus.html web-page add Google maps.		75 mins
LAB 5	a. Design HTML5 web page by embedding Audio, Video elements.	9	50 mins
	b. Write HTML5 and JavaScript code to draw Arc, Circle, Rectangle and Triangle using Canvas.		100 mins
LAB 6	Bootstrap Concepts on Grid System, Menus.	10	150 mins
LAB 7	Create index.html page and design it as shown in above screen (Hint: Use Bootstrap Grid System, Horizontal and vertical menus, footer, table etc.)	11	150 mins
LAB 8	Write a jQuery code to make draggable Rectangle	12	150 mins
LAB 9	Write jQuery code to demonstrate the usage of important options disabled, delay, distance and clone in the drag function of jQuery UI.	13	150 mins
LAB 10	Write jQuery code to demonstrate three options addClass, disable and tolerance in the drop function of jQuery UI.	14	150 mins
LAB 11	Write jQuery code to demonstrates the use of two options delay and distance of selectable () method.	15	150 mins
LAB 12	Write jQuery code to demonstrate Accordion and Date Picker.	16	150 mins

Topic	AIM :	S.No	Duration
LAB 1	**Create the following web** 1. Welcome.html It explain about website	1A	30 mins

PROCEDURE:

Step 1: Start.

Step 2: Open Notepad (PC)

Step 3: Write or copy some HTML into Notepad. (i.e Write the code for welcome.html.)

Step 4: Save the HTML Page

Save the file on your computer. Select File > Save as in the Notepad menu. Name the file "welcome.htm"

Step 5: Display Results.

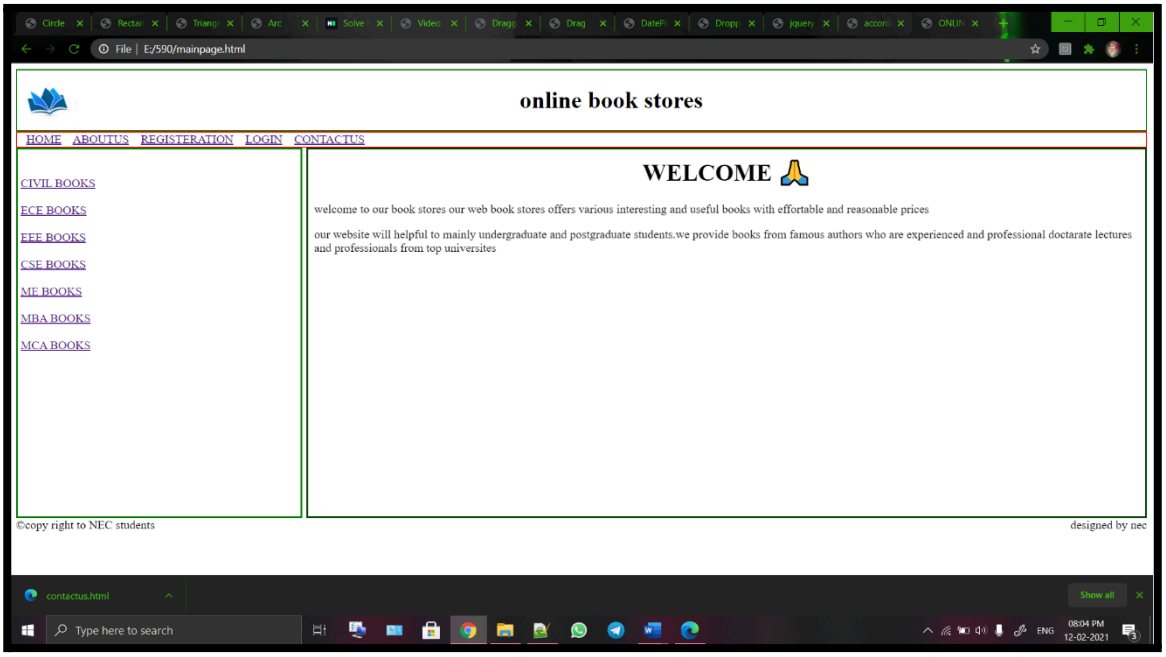
Open the saved HTML file in your favourite browser (double click on the file, or right-click - and choose "Open with").

Step 6: Stop.

CODE: welcome.html

```
<!DOCTYPE html>
<html>
    <head>
    <title>welcome page</title>
    </head>
    <body>
        <h1 align="center">WELCOME  &#128591</h1>
        <p>welcome to our book stores our web book stores offers various interesting and useful books with effortable and reasonable prices</p>
        <p>our website will helpful to mainly undergraduate and postgraduate students.we provide books from famous authors who are experienced and professional doctarate lectures and professionals from top  universites</p>
    </body>
</html>
```

OUTPUT


File | E:/590/mainpage.html
online book stores
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
WELCOME
welcome to our book stores our web book stores offers various interesting and useful books with effortable and reasonable prices
our website will helpful to mainly undergraduate and postgraduate students.we provide books from famous authors who are experienced and professional doctarate lectures and professionals from top universites
©copy right to NEC students
designed by nec
contactus.html
Show all
Type here to search
ENG
08:04 PM
12-02-2021

Topic	AIM :	S.No	Duration
LAB 1	2. Aboutus.html (Hint: About owner of website)	1B	30 mins

PROCEDURE:

Step 1: Start.

Step 2: Open Notepad (PC)

Step 3: Write or copy some HTML into Notepad. (i.e Write the code for welcome.html.)

Step 4: Save the HTML Page

Save the file on your computer. Select File > Save as in the Notepad menu. Name the file "Aboutus.htm"

Step 5: Display Results.

Open the saved HTML file in your favourite browser (double click on the file, or right-click - and choose "Open with").

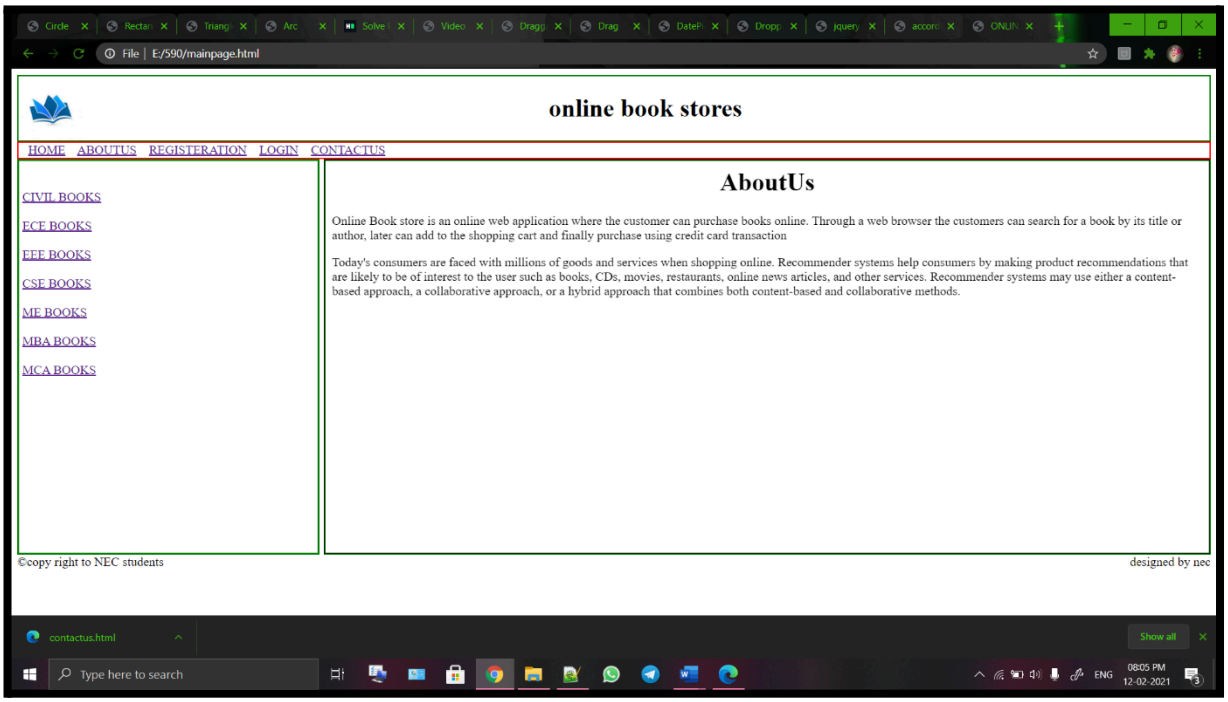
Step 6: Stop.

CODE: Aboutus.html

```
<!DOCTYPE html>
<html>
    <head>
    <title>Aboutus</title>
    <link rel=stylesheet href="style1.css">
    </head>
    <body>
    <h1 align="center">AboutUs</h1>
    <p>Online Book store is an online web application where the customer can purchase books online. Through a web browser the customers can search for a book by its title or author, later can add to the shopping cart and finally purchase using credit card transaction</p>
    <p>Today's consumers are faced with millions of goods and services when shopping online. Recommender systems help
    consumers by making product recommendations that are likely to be of interest to the user such as books, CDs, movies, restaurants, online news articles, and other services.
    Recommender systems may use either a content-based approach, a collaborative approach, or a hybrid approach that combines both content-based and collaborative methods.</p>
```

```
    </body>
</html>
```

Output:



Topic	AIM :	S.No	Duration
LAB 1	3. Contactus.html	1C	30 mins

PROCEDURE:

Step 1: Start.

Step 2: Open Notepad (PC)

Step 3: Write or copy some HTML into Notepad. (i.e Write the code for Contactus.html.)

Step 4: Save the HTML Page

Save the file on your computer. Select File > Save as in the Notepad menu. Name the file " Contactus.html ”

Step 5: Display Results. Step

Open the saved HTML file in your favourite browser (double click on the file, or right-click - and choose "Open with").

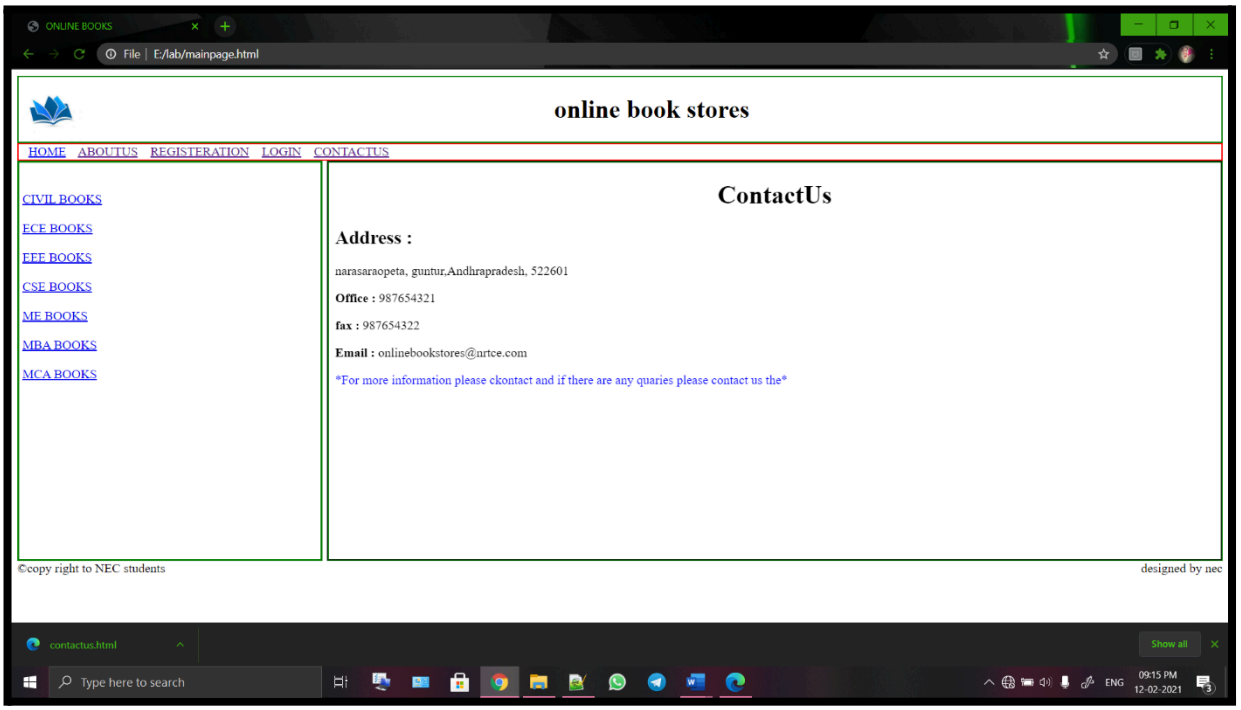
Step 6: Stop.

CODE: Contactus.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>Contactus</title>
    </head>
    <body>
        <h1 align="center">ContactUs</h1>
        <h2>Address :</h2>
        <p>narasaraopeta, guntur,Andhrapradesh, 522601</p>
        <p><b>Office : </b>987654321</p>
        <p><b>fax : </b>987654322</p>
        <p><b>Email :</b> onlinebookstores@nrtce.com</p>
        <p style="color:blue">*For more information please contact and if there are any quaries please contact us the*</P>
        </div>
```

```
    </body>

</html>
```

Output:



VIVA QUESTIONS AND ANSWERS

1) What is HTML?
HTML stands for Hyper Text Markup Language. It is a language of World Wide Web. It is a standard text formatting language which is used to create and display pages on the Web. It makes the text more interactive and dynamic. It can turn text into images, tables, links

2) What are Tags?
HTML tags are composed of three things: an opening tag, content and ending tag. Some tags are unclosed tags.

3) Do all HTML tags have an end tag?
No. There are some HTML tags that don't need a closing tag. For example: <image> tag,
 tag.

LAB- 2

PROCEDURE:

Topic	AIM :	S.No	Duration
LAB 2	a. Create web pages for each course. Example cse.html (Hint: It contains Heading and List of subjects in tabular form) Example	2	50 mins

Step 1: Start.

Step 2: Open Notepad (PC)

Step 3: Write or copy some HTML into Notepad. (i.e Write the code for civil.html.)

Step 4: Save the HTML Page

Save the file on your computer. Select File > Save as in the Notepad menu. Name the file "civil.html"

Step 5: Display Results.

Open the saved HTML file in your favourite browser (double click on the file, or right-click - and choose "Open with").

Step 6: Stop.

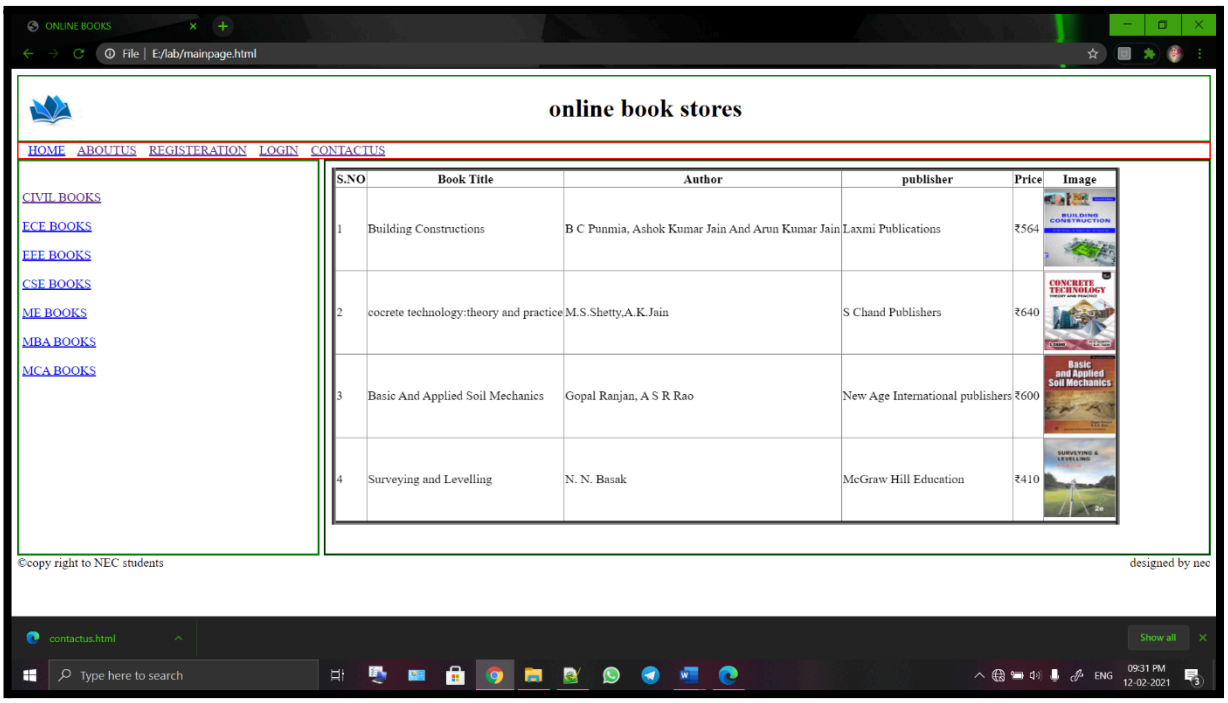
CODE:

1.civil.html

```
<!DOCTYPE html>
<html>
    <head>
    <title> CIVIL BOOKS</title>
    </head>
    <body>
        <table border=5px style="border-collapse:collapse">
            <tr>
                <th>S.NO</th>
                <th>Book Title</th>
                <th>Author</th>
                <th>publisher</th>
                <th>Price</th>
                <th>Image</th>
            </tr>
            <tr>
                <td>1</td>
```

```
<td>Building Constructions</td>
<td>B C Punmia, Ashok Kumar Jain And Arun Kumar Jain</td>
<td> Laxmi Publications</td>
<td>&#8377;564</td>
<td><img src="E:\lab\books\bc.jpg"   width=90px height=100px></td>
</tr>
<td>2</td>
<td>cocrete technology:theory and practice</td>
<td>M.S.Shetty,A.K.Jain</td>
<td>S Chand Publishers</td>
<td>&#8377;640</td>
<td><img src="E:\lab\books\ct.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>3</td>
<td>Basic And Applied Soil Mechanics</td>
<td>Gopal Ranjan, A S R Rao</td>
<td>New Age International publishers</td>
<td>&#8377;600</td>
<td><img src="E:\lab\books\ce1.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>4</td>
<td>Surveying and Levelling</td>
<td>    N. N. Basak</td>
<td>McGraw Hill Education</td>
<td>&#8377;410</td>
<td><img src="E:\lab\books\ce2.jpg" width=90px height=100px></td>
</tr>          </table>        </body>       </html>
```

Output:

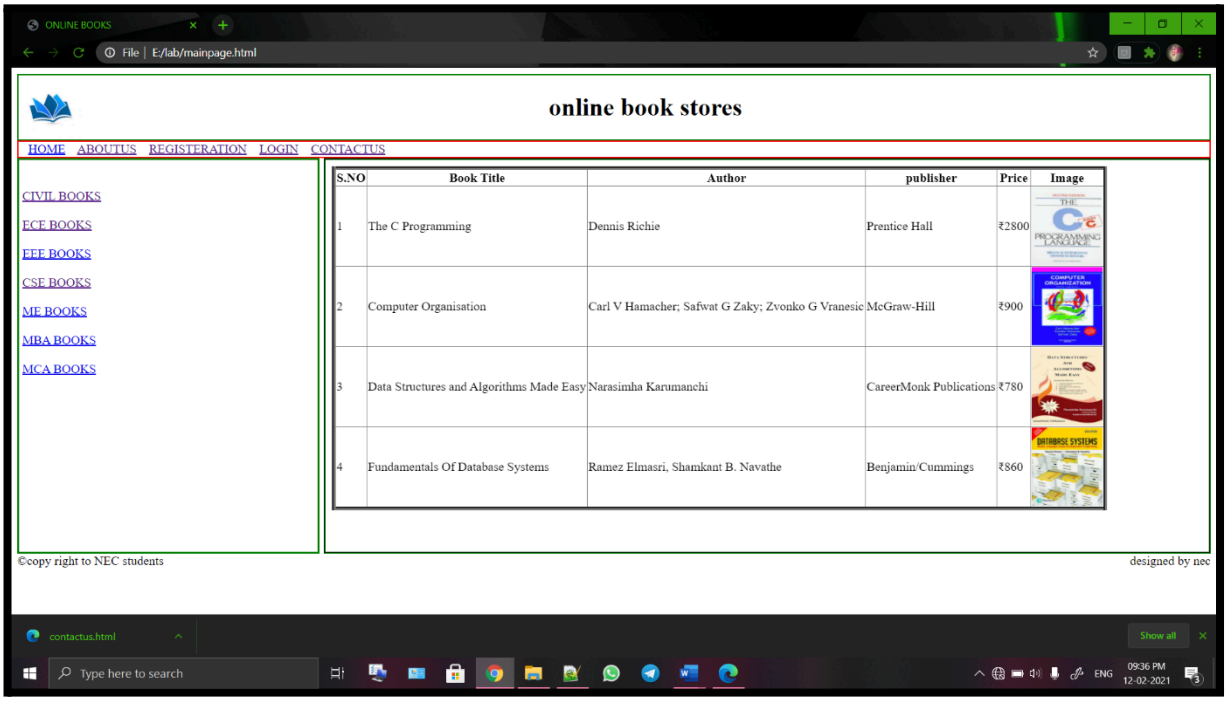


2.cse.html

```
<!DOCTYPE html>
<html>
	<head>
	<title> CSE BOOKS</title>

	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>The C Programming</td>
				<td>Dennis Richie</td>
				<td> Prentice Hall</td>
				<td>&#8377;2800</td>
				<td><img src="E:\lab\books\cp.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Computer Organisation</td>
				<td>    Carl V Hamacher; Safwat G Zaky; Zvonko G Vranesic</td>
				<td>McGraw-Hill</td>
				<td>&#8377;900</td>
				<td><img src="E:\lab\books\co.jpg" width=90px height=100px></td>
```

```
                </tr>
                <tr>
                        <td>3</td>
                        <td>Data Structures and Algorithms Made Easy</td>
                        <td>Narasimha Karumanchi</td>
                        <td>CareerMonk Publications</td>
                        <td>&#8377;780</td>
                        <td><img src="E:\lab\books\ds.jpg" width=90px height=100px></td>
                </tr>
                <tr>
                        <td>4</td>
                        <td>Fundamentals Of Database Systems</td>
                        <td>    Ramez Elmasri, Shamkant B. Navathe</td>
                        <td>Benjamin/Cummings</td>
                        <td>&#8377;860</td>
                        <td><img src="E:\lab\books\db.jpg" width=90px height=100px></td>
                </tr>
        </table>
    </body>
</html>
```

Output:

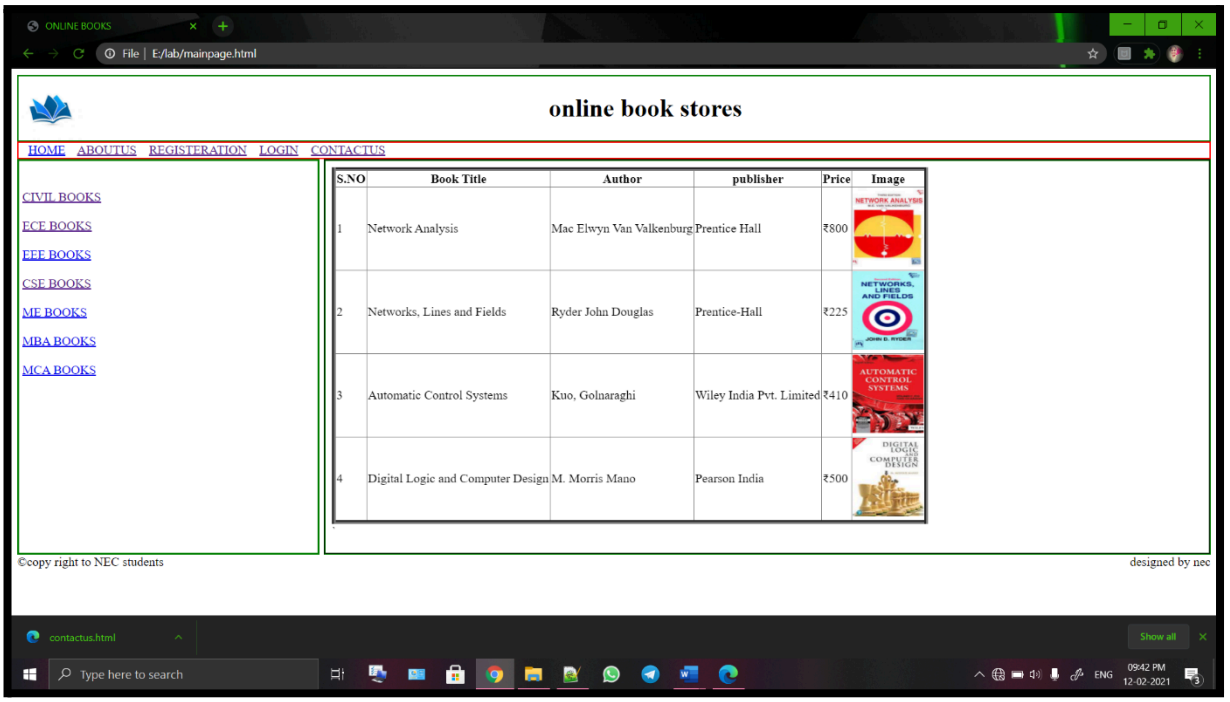

ONLINE BOOKS
File | E:/lab/mainpage.html
online book stores
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
S.NO Book Title Author publisher Price Image
1 The C Programming Dennis Richie Prentice Hall ₹2800
2 Computer Organisation Carl V Hamacher; Safwat G Zaky; Zvonko G Vranesic McGraw-Hill ₹900
3 Data Structures and Algorithms Made Easy Narasimha Karumanchi CareerMonk Publications ₹780
4 Fundamentals Of Database Systems Ramez Elmasri, Shamkant B. Navathe Benjamin/Cummings ₹860
©copy right to NEC students
designed by nec
contactus.html
Show all
Type here to search
ENG
09:36 PM
12-02-2021

3.ece.html

```
<!DOCTYPE html>
<html>
	<head>
	<title> ECE BOOKS</title>

	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>Network Analysis</td>
				<td>Mac Elwyn Van Valkenburg</td>
				<td> Prentice Hall</td>
				<td>&#8377;800</td>
				<td><img src="E:\lab\books\ece1.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Networks, Lines and Fields</td>
				<td>Ryder John Douglas</td>
				<td>Prentice-Hall </td>
```

```
                <td>&#8377;225</td>
                <td><img src="E:\lab\books\ece2.jpeg" width=90px height=100px></td>
            </tr>
            <tr>
                <td>3</td>
                <td>Automatic Control  Systems</td>
                <td>Kuo, Golnaraghi</td>
                <td>Wiley India Pvt. Limited</td>
                <td>&#8377;410</td>
                <td><img src="E:\lab\books\ece3.jpg" width=90px height=100px></td>
            </tr>
            <tr>
                <td>4</td>
                <td>Digital Logic and Computer Design</td>
                <td>M. Morris Mano  </td>
                <td>Pearson India</td>
                <td>&#8377;500</td>
                <td><img src="E:\lab\books\ece4.jpg" width=90px height=100px></td>
            </tr>

        </table>
    </body>
</html>
```

Output:

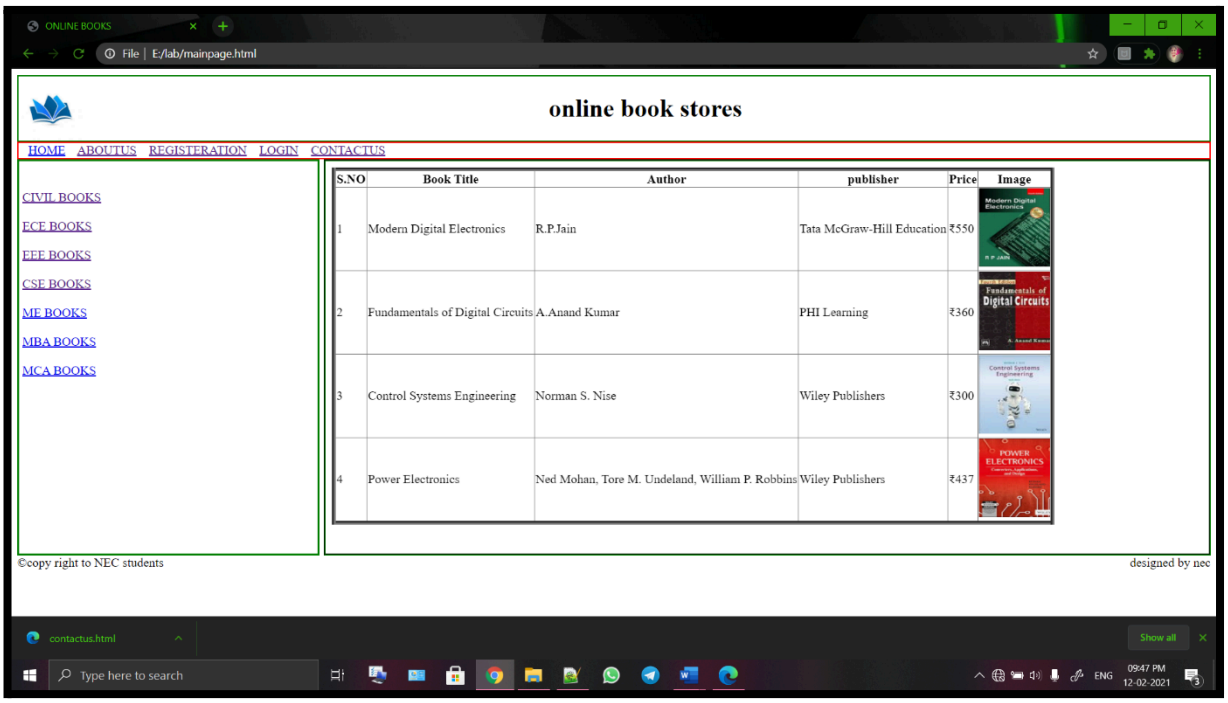


4.eee.html

```
<!DOCTYPE html>
<html>
	<head>
	<title> EEE BOOKS</title>
	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>Modern Digital Electronics</td>
				<td>R.P.Jain</td>
				<td>Tata McGraw-Hill Education</td>
				<td>&#8377;550</td>
				<td><img src="E:\lab\books\eee1.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Fundamentals of Digital Circuits</td>
				<td>A.Anand  Kumar</td>
				<td>PHI Learning</td>
				<td>&#8377;360</td>
				<td><img src="E:\lab\books\eee2.jpg" width=90px height=100px></td>
			</tr>
```

```
<tr>
<td>3</td>
<td>Control Systems Engineering</td>
<td>Norman S. Nise</td>
<td>Wiley Publishers</td>
<td>&#8377;300</td>
<td><img src="E:\lab\books\eee3.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>4</td>
<td>Power Electronics</td>
<td>Ned Mohan, Tore M. Undeland, William P. Robbins</td>
<td>Wiley Publishers</td>
<td>&#8377;437</td>
<td><img src="E:\lab\books\eee4.jpg" width=90px height=100px></td>
</tr>
</table>
</body>
</html>
```

Output:

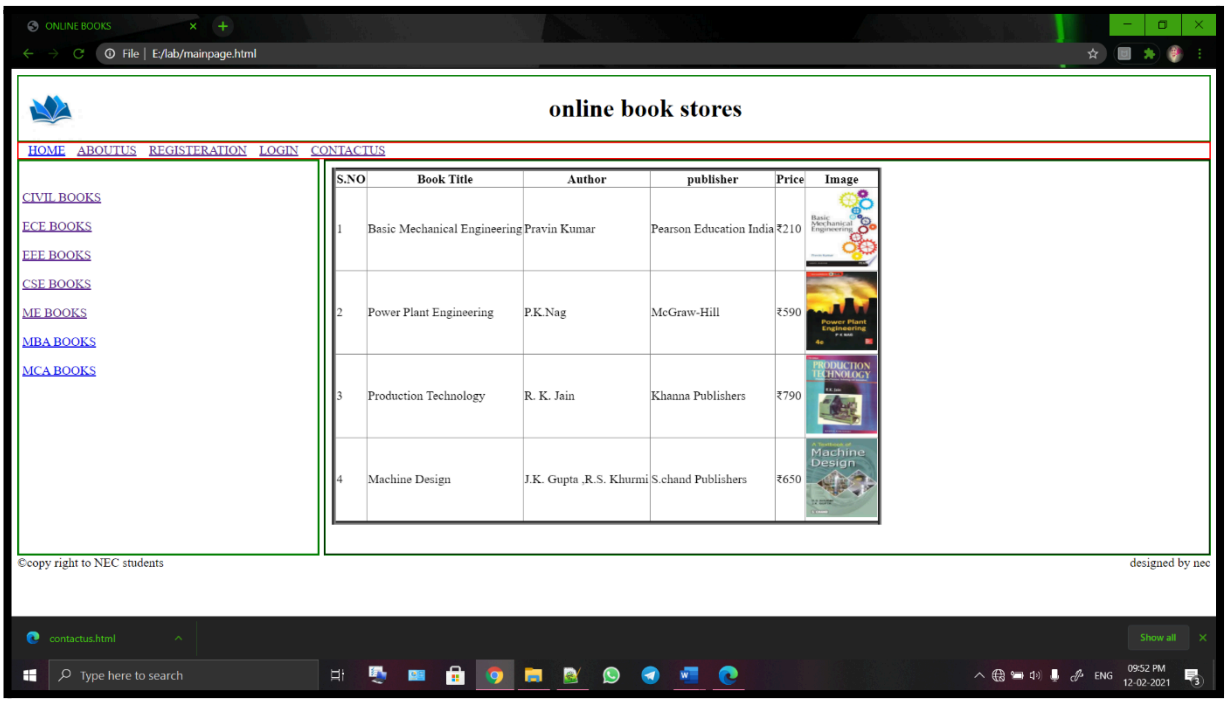


5.mech.html

```
<!DOCTYPE html>
<html>
	<head>
	<title> MECHANICAL BOOKS</title>

	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>Basic Mechanical Engineering</td>
				<td>Pravin Kumar</td>
				<td> Pearson Education India</td>
				<td>&#8377;210</td>
				<td><img src="E:\lab\books\me1.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Power Plant Engineering</td>
				<td>P.K.Nag  </td>
				<td>McGraw-Hill</td>
				<td>&#8377;590</td>
				<td><img src="E:\lab\books\me2.jpg" width=90px height=100px></td>
```

```
</tr>
<tr>
<td>3</td>
<td>Production Technology</td>
<td>R. K. Jain</td>
<td>Khanna Publishers</td>
<td>&#8377;790</td>
<td><img src="E:\lab\books\me3.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>4</td>
<td>Machine Design</td>
<td>  J.K. Gupta ,R.S. Khurmi</td>
<td>S.chand Publishers</td>
<td>&#8377;650</td>
<td><img src="E:\lab\books\me4.jpg" width=90px height=100px></td>
</tr>
</table>
</body>
</html>
```

Output:

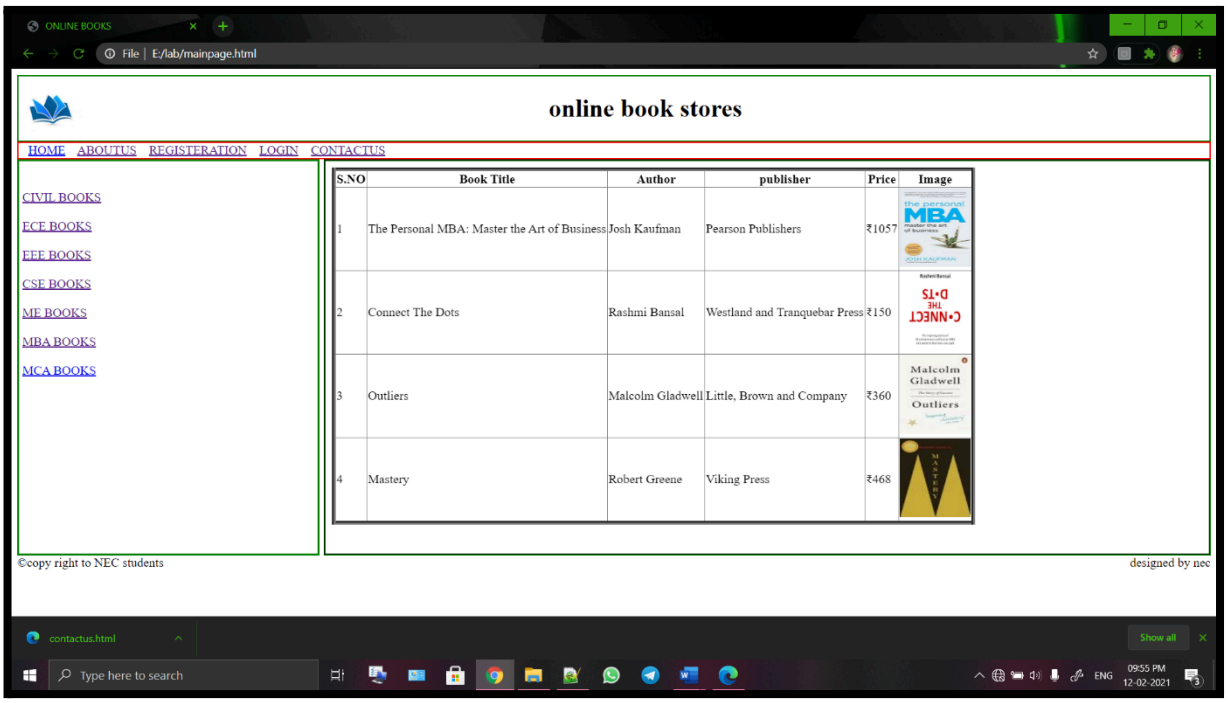


6.mba.html

```
<!DOCTYPE html>
<html>
	<head>
	<title> MBA BOOKS</title>
	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>The Personal MBA: Master the Art of Business</td>
				<td>Josh Kaufman </td>
				<td>Pearson Publishers</td>
				<td>&#8377;1057</td>
				<td><img src="E:\lab\books\mba1.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Connect The Dots</td>
				<td>    Rashmi Bansal</td>
				<td>Westland and Tranquebar Press</td>
				<td>&#8377;150</td>
				<td><img src="E:\lab\books\mba2.png" width=90px height=100px></td>
			</tr>
```

```
<tr>
<td>3</td>
<td>Outliers</td>
<td>Malcolm Gladwell</td>
<td>Little, Brown and Company</td>
<td>&#8377;360</td>
<td><img src="E:\lab\books\mba3.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>4</td>
<td>Mastery</td>
<td>Robert Greene </td>
<td>Viking Press</td>
<td>&#8377;468</td>
<td><img src="E:\lab\books\mba4.jpg" width=90px height=100px></td>
</tr>
</table>
</body>
</html>
```

Output:

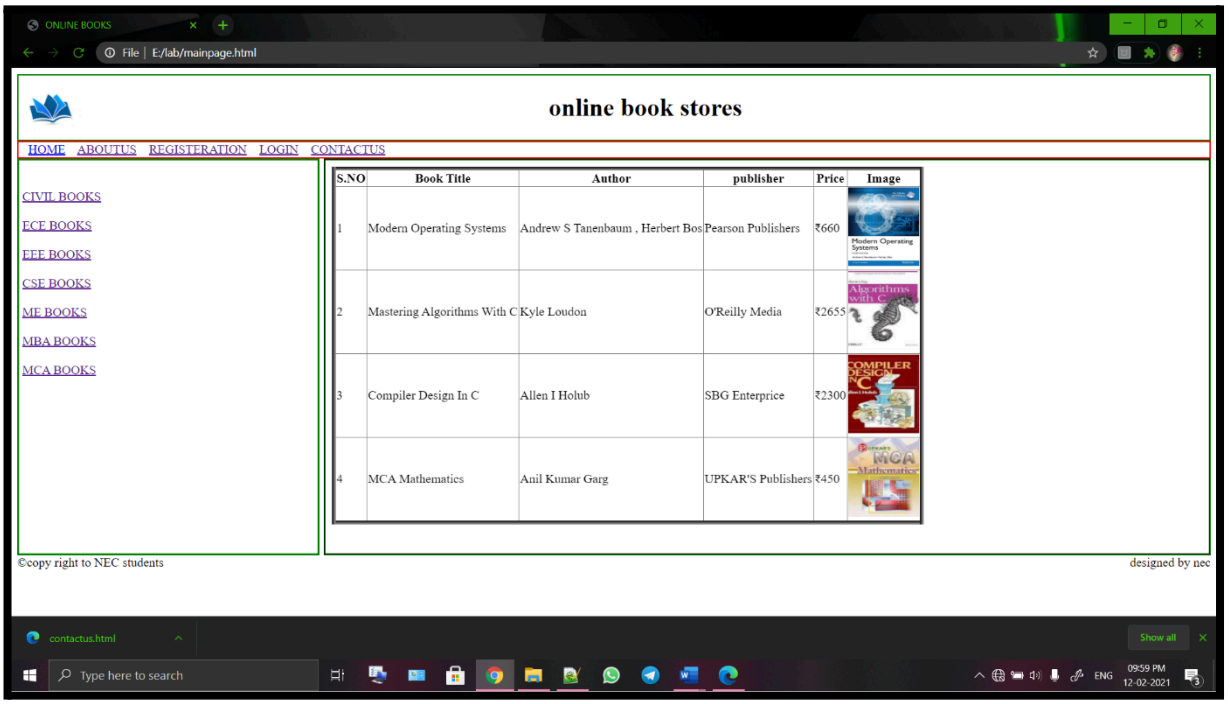


6.mca.html

```
<!DOCTYPE html>
<html>
<head>
<title> MCA BOOKS</title>
</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
			</tr>
			<tr>
				<td>1</td>
				<td>Modern Operating Systems</td>
				<td> Andrew S Tanenbaum , Herbert Bos </td>
				<td>Pearson Publishers</td>
				<td>&#8377;660</td>
				<td><img src="E:\lab\books\mca1.jpg"  width=90px height=100px></td>
		</tr>
			<tr>
				<td>2</td>
				<td>Mastering Algorithms With C</td>
				<td> Kyle Loudon</td>
				<td>O'Reilly Media</td>
				<td>&#8377;2655</td>
				<td><img src="E:\lab\books\mca2.jpg" width=90px height=100px></td>
			</tr>
```

```
                <tr>
                        <td>3</td>
                        <td>Compiler Design In C</td>
                        <td>Allen I Holub</td>
                        <td>SBG Enterprice</td>
                        <td>&#8377;2300</td>
                        <td><img src="E:\lab\books\mca3.jpg" width=90px height=100px></td>
                </tr>
                <tr>
                        <td>4</td>
                        <td>MCA Mathematics</td>
                        <td>Anil Kumar Garg  </td>
                        <td>UPKAR'S Publishers</td>
                        <td>&#8377;450</td>
                        <td><img src="E:\lab\books\mca4.jpg" width=90px height=100px></td>
                </tr>
        </table>
    </body>
</html>
```

Output:



1. Choose an HTML editor

2. Create your HTML file

Topic	AIM :	S.No	Duration
LAB 2	**b. Create Registration and Login forms Registration Form: It contains Student Name, Roll Number, Password, Gender, Email ID, Phone Number, opted course and languages known.**	2B	70 mins

3. Add Text Fields And Create Your Form

4. Add placeholder text

5. Customise it with CSS

PROCEDURE:

1. Choose an HTML editor

2. Create your HTML file

3. Add Text Fields And Create Your Form by using form Elements

4. Add placeholder text

5. Customise it with CSS

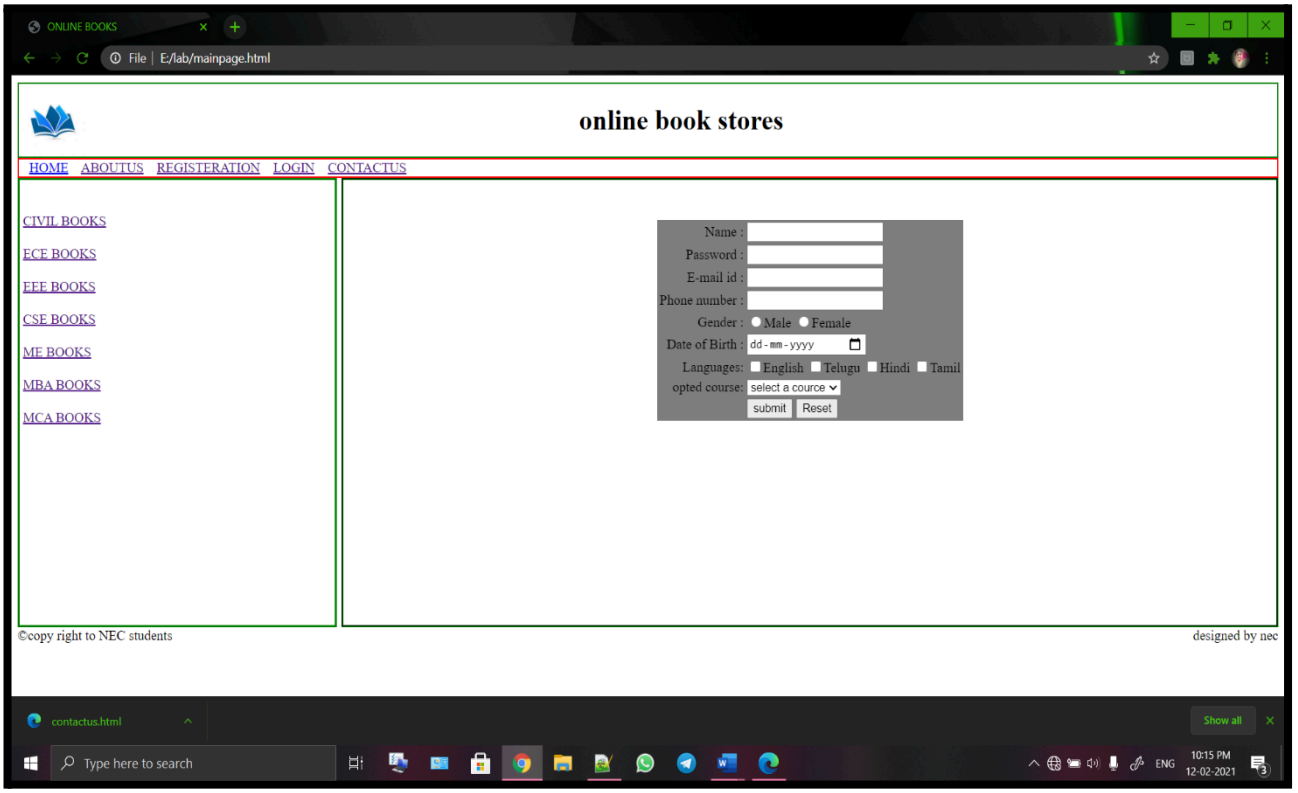
CODE: registration.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Registration page</title>
</head>
<body>
<form name="f"  ><br><br>
<table align="center" bgcolor=grey>
<tr>
<td align=right>Name :
<td><input type="text" name="n"  id="n" required>
</tr>
<tr>
<td align=right>Password :
<td><input type="password" name="p"  id="p"  required>
```

```
</tr>
<tr>
<td align=right>E-mail id :
<td><input type="text" name="e"  id="e" required>
</tr>
<tr>
<td align=right>Phone number :
<td><input type="text"  maxlength=10 name="ph" id="ph"  required>
</tr>
<tr>
<td align="right">Gender :
<td><input type="radio" name="g">Male
<input type="radio" name="g">Female
</tr>
<tr>
<td align="right">Date of Birth :
<td>
<input type="date"  name="dob" required>
</tr>
<tr>
<td align="right">Languages:
<td>
<input type=checkbox >English
<input type=checkbox >Telugu
<input type=checkbox >Hindi
<input type=checkbox >Tamil
</tr>
<tr>
<td align="right">opted course:
<td>
<select  id="cources"  name="cource"  required>
```

```
<option>select a cource</option>
<option>CE</option>
<option>ECE</option>
<option>ME</option>
<option>CSE</option>
<option>EEE</option>
<option>MBA</option>
<option>MCA</option>
</select>
</tr>
<tr>
<td>
<td><input type="button" value="submit" >
 <input type="reset">
</tr>
</table>
</form>
</body>
</html>
```

Output:


ONLINE BOOKS
File | E:/lab/mainpage.html
online book stores
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Name :
Password :
E-mail id :
Phone number :
Gender : Male Female
Date of Birth : dd-mm-yyyy
Languages: English Telugu Hindi Tamil
opted course: select a cource
submit Reset
©copy right to NEC students
designed by nec
contactus.html
Show all
Type here to search
ENG
10:15 PM
12-02-2021

Topic	AIM :	S.No	Duration
LAB 2	**Login Form: It contains roll number as User ID, password, submit button and cancel button.**	2B	30 mins

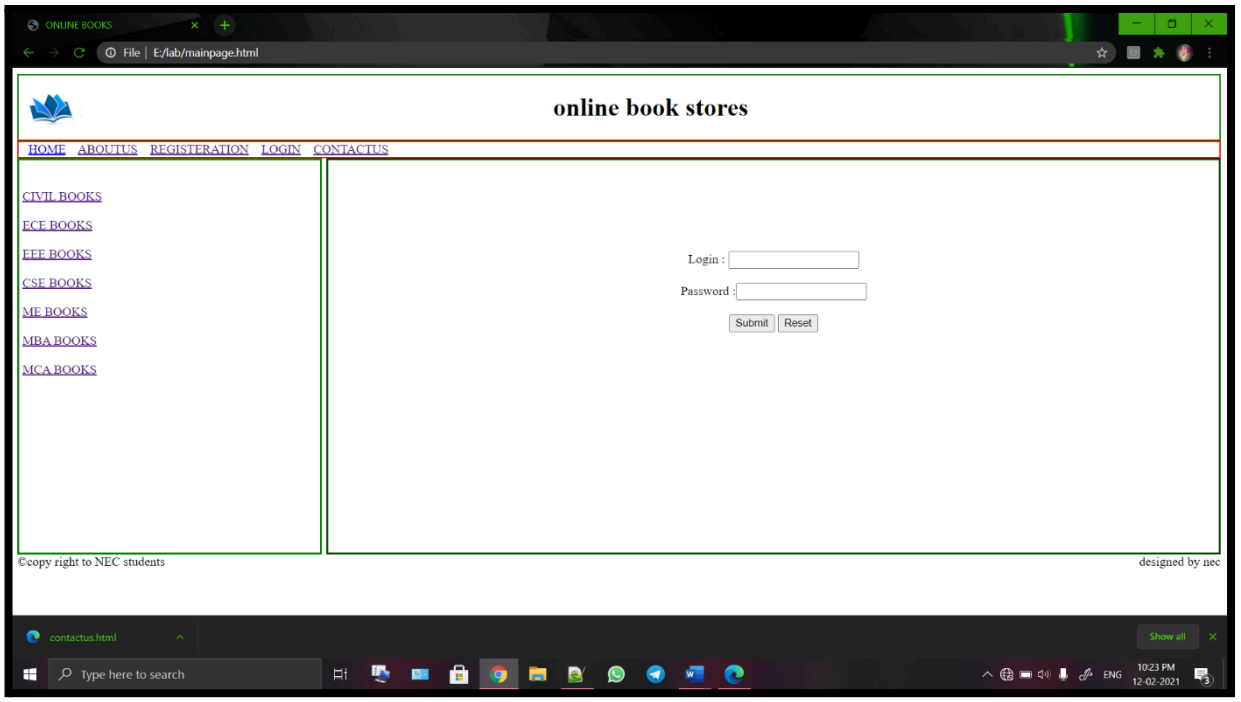
PROCEDURE:

1. Choose an HTML editor
2. Create your HTML file
3. Add Text Fields And Create Your Form by using form Elements
4. Add placeholder text
5. Customise it with CSS

CODE: login.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Login page</title>
</head>
<body>
<br><br><br><br><br>
<form name="f"> <p align=center>
Login : <input type="text" name="n"><br><br>
Password :<input type="password" name="p"><br><br>
<input type="submit" value="Submit" name="sub">
<input type="reset" value="Reset" name="sub">
</p>
</form>
</body>
</html>
```

Output:


ONLINE BOOKS
File | E:/lab/mainpage.html
online book stores
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Login :
Password :
Submit Reset
©copy right to NEC students
designed by nec
contactus.html
Show all
Type here to search
ENG
10:23 PM
12-02-2021

Topic	AIM :	S.No	Duration
LAB 3	**Apply CSS 3 on web-pages created on Lab 1 and Lab2. Make use of the selectors like class, id, html elements, pseudo classes and elements.**	3	150 mins

POCEDURE:

1. With an external file that you link to in your web page:

<**link** href="myCSSfile.css" rel="stylesheet" type="text/css">

or using the import method:

```
<style type="text/css" media="all">
  @import "myCSSfile.css";
</style>
```

2. By creating a CSS block in the web page itself; typically inserted at the top of the web page in between the <head> and </head> tags:

```
<head>
  <style type="text/css">
    p { padding-bottom: 12px; }
  </style>
</head>
```

3. By inserting the CSS code right on the tag itself:

<**p** style="padding-bottom:12px;">Your Text</**p**>

CODE : welcome.html:

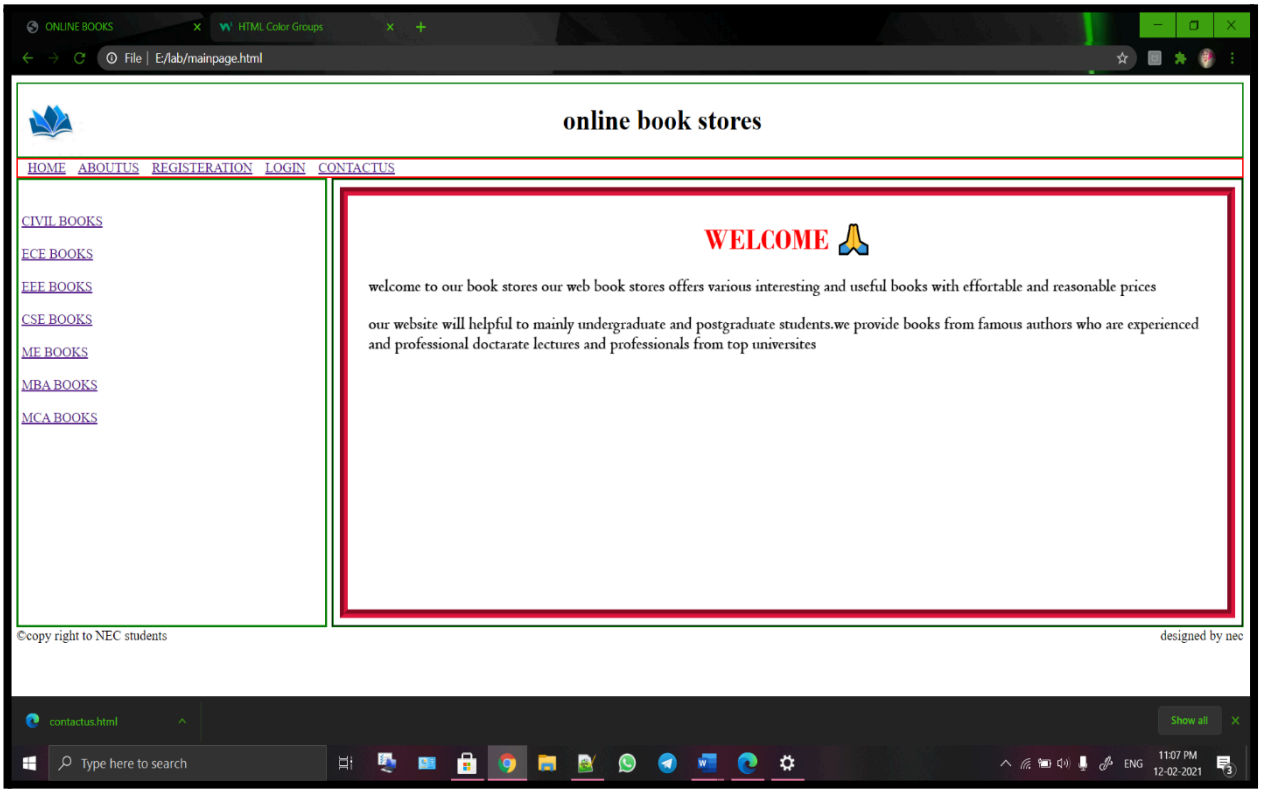
```
<html>
    <head>
        <link rel=stylesheet href="style1.css">
    </head>
    <body>
        <h1 align="center">WELCOME  &#128591;</h1>
        <p>welcome to our book stores our web book stores offers various interesting and useful books with effortable and reasonable prices</p>
```

```
<p>our website will helpful to mainly undergraduate and postgraduate students.we provide books from famous authors who are experienced and professional doctarate lectures and professionals from top  universites</p>

    </body>

</html>
```

style1.css file contains:

```
body{
    border-width: 10px;
    border-color:#dc143c;
     border-style:groove;
    padding: 25px;}
h1{color:red;
font-family:Bodoni MT;
}
p{font-size:20px;
font-family:Centaur;
font-weight:bold;
align:center;}
```

Output:



CODE : aboutus.html:

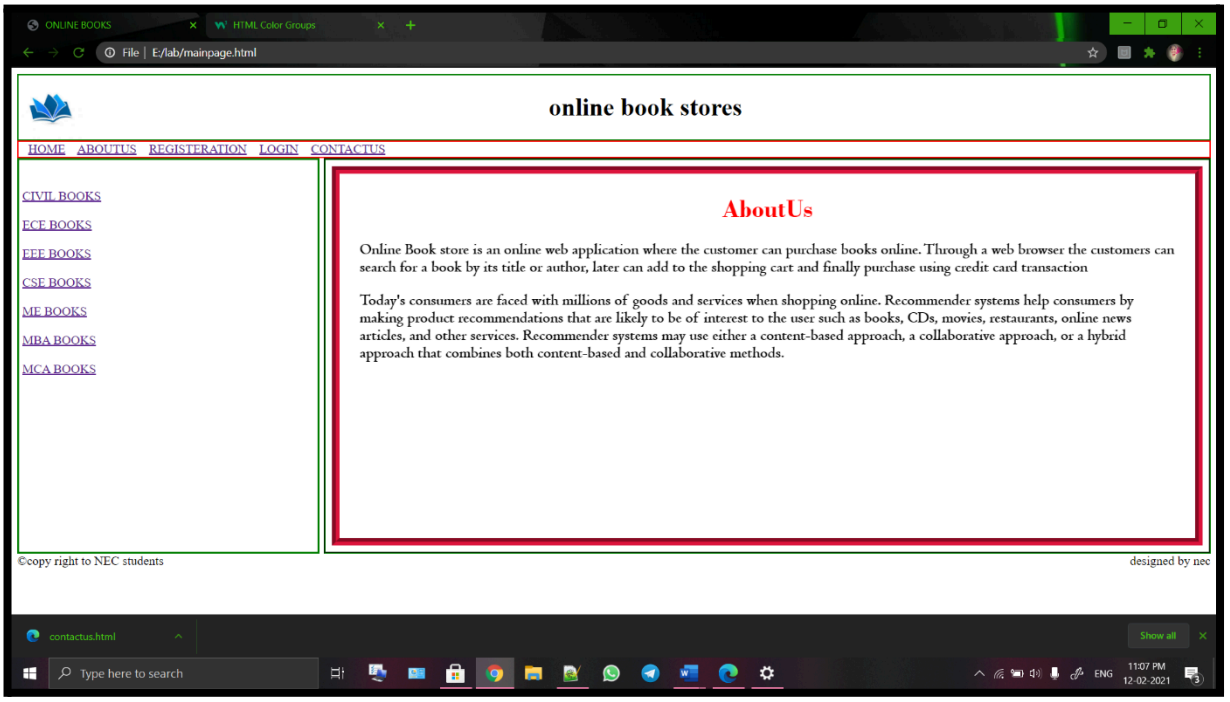
```
<html>
    <head>
    <title>Aboutus</title>
    <link rel=stylesheet href="style1.css">
    </head>
    <body>
    <h1 align="center">AboutUs</h1>
    <p>Online Book store is an online web application where the customer can purchase books online. Through a web browser the customers can search for a book by its title or author, later can add to the shopping cart and finally purchase using credit card transaction</p>
    <p>Today's consumers are faced with millions of goods and services when shopping online. Recommender systems help
    consumers by making product recommendations that are likely to be of interest to the user such as books, CDs, movies, restaurants, online news articles, and other services.
    Recommender systems may use either a content-based approach, a collaborative approach, or a hybrid approach that combines both content-based and collaborative methods.</p>
    </body>
```

```
</html>
```

style1.css file contains:

```
body{
                border-width: 10px;
                border-color:#dc143c;
                 border-style:groove;
                padding: 25px;}
               h1{color:red;
               font-family:Bodoni MT;
               }
p{font-size:20px;
               font-family:Centaur;
               font-weight:bold;
               align:center;}
```

output:



CODE : cse.html:

```
<!DOCTYPE html>
<html>
	<head>
	<title> CSE BOOKS</title>
	<link rel="stylesheet"  href="style2.css">
	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
				<th>Image</th>
```

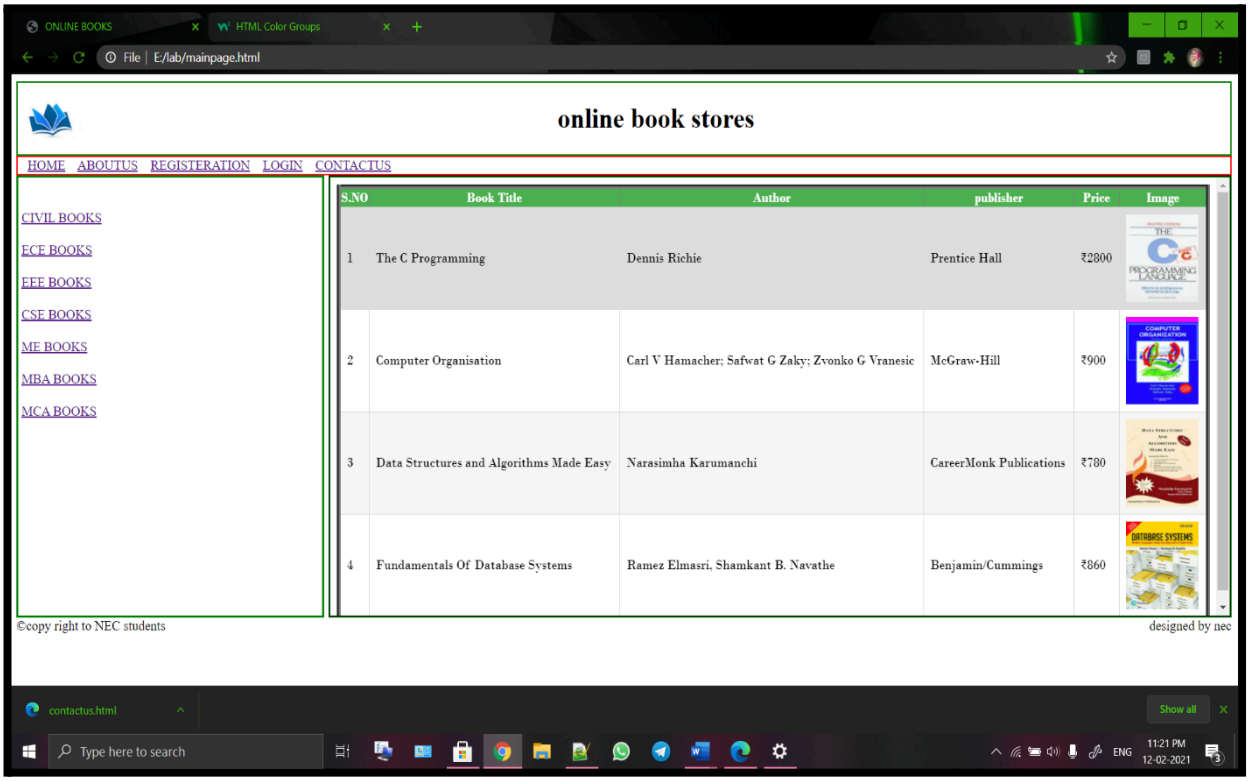
```
		</tr>
		<tr>
			<td>1</td>
			<td>The C Programming</td>
			<td>Dennis Richie</td>
			<td> Prentice Hall</td>
			<td>&#8377;2800</td>
			<td><img src="E:\lab\books\cp.jpg"  width=90px height=100px></td>
	</tr>
		<tr>
			<td>2</td>
			<td>Computer Organisation</td>
			<td>    Carl V Hamacher; Safwat G Zaky; Zvonko G Vranesic</td>
			<td>McGraw-Hill</td>
			<td>&#8377;900</td>
			<td><img src="E:\lab\books\co.jpg" width=90px height=100px></td>
		</tr>
		<tr>
			<td>3</td>
			<td>Data Structures and Algorithms Made Easy</td>
			<td>Narasimha Karumanchi</td>
			<td>CareerMonk Publications</td>
			<td>&#8377;780</td>
			<td><img src="E:\lab\books\ds.jpg" width=90px height=100px></td>
		</tr>
		<tr>
			<td>4</td>
			<td>Fundamentals Of Database Systems</td>
			<td>    Ramez Elmasri, Shamkant B. Navathe</td>
			<td>Benjamin/Cummings</td>
			<td>&#8377;860</td>
```

```
                    <td><img src="E:\lab\books\db.jpg" width=90px height=100px></td>
                </tr>
            </table>
        </body>
</html>
```

style2.css file contains:

```
table {
  font-family: Bodoni MT;
  border-collapse: collapse;
  width: 100%;
}
td {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}
tr:nth-child(even) {
  background-color: #dddddd;
}
tr:hover {background-color: #f5f5f5;}
th {
  background-color: #4CAF50;
  color: white;}
```

output:



CODE : ece.html:

```
<!DOCTYPE html>
<html>
        <head>
        <title> ECE BOOKS</title>
        <link rel="stylesheet"  href="style2.css">
        </head>
        <body>
                <table border=5px style="border-collapse:collapse">
                        <tr>
                                <th>S.NO</th>
                                <th>Book Title</th>
                                <th>Author</th>
                                <th>publisher</th>
```

```
<th>Price</th>
<th>Image</th>
</tr>
<tr>
<td>1</td>
<td>Network Analysis</td>
<td>Mac Elwyn Van Valkenburg</td>
<td> Prentice Hall</td>
<td>&#8377;800</td>
<td><img src="E:\lab\books\ece1.jpg"  width=90px height=100px></td>
</tr>
<tr>
<td>2</td>
<td>Networks, Lines and Fields</td>
<td>Ryder John Douglas</td>
<td>Prentice-Hall </td>
<td>&#8377;225</td>
<td><img src="E:\lab\books\ece2.jpeg" width=90px height=100px></td>
</tr>
<tr>
<td>3</td>
<td>Automatic Control  Systems</td>
<td>Kuo, Golnaraghi</td>
<td>Wiley India Pvt. Limited</td>
<td>&#8377;410</td>
<td><img src="E:\lab\books\ece3.jpg" width=90px height=100px></td>
</tr>
<tr>
<td>4</td>
<td>Digital Logic and Computer Design</td>
<td>M. Morris Mano  </td>
```

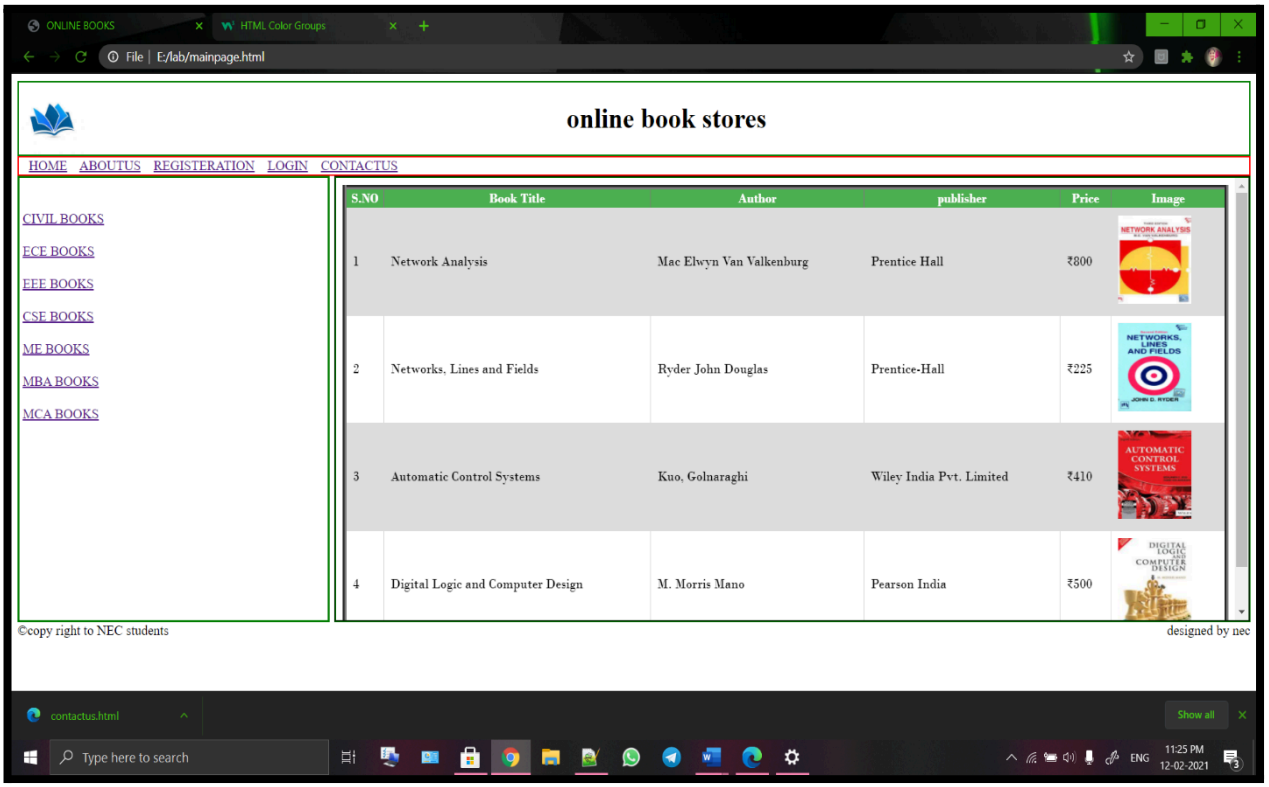
```
                    <td>Pearson India</td>
                    <td>&#8377;500</td>
                    <td><img src="E:\lab\books\ece4.jpg" width=90px height=100px></td>
                </tr>

            </table>
        </body>
</html>
```

Style2.css file contains:

```
table {
  font-family: Bodoni MT;
  border-collapse: collapse;
  width: 100%;
}
td {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}
tr:nth-child(even) {
  background-color: #dddddd;
}
tr:hover {background-color: #f5f5f5;}
```

```
th {
  background-color: #4CAF50;  color: white;}
```

output:



CODE : mba.html:

```
<!DOCTYPE html>
<html>
	<head>
	<title> MBA BOOKS</title>
	<link rel="stylesheet"  href="style2.css">
	</head>
	<body>
		<table border=5px style="border-collapse:collapse">
			<tr>
				<th>S.NO</th>
				<th>Book Title</th>
				<th>Author</th>
				<th>publisher</th>
				<th>Price</th>
```

```
                <th>Image</th>
            </tr>
            <tr>
                <td>1</td>
                <td>The Personal MBA: Master the Art of Business</td>
                <td>Josh Kaufman </td>
                <td>Pearson Publishers</td>
                <td>&#8377;1057</td>
                <td><img src="E:\lab\books\mba1.jpg"  width=90px height=100px></td>
        </tr>
            <tr>
                <td>2</td>
                <td>Connect The Dots</td>
                <td>    Rashmi Bansal</td>
                <td>Westland and Tranquebar Press</td>
                <td>&#8377;150</td>
                <td><img src="E:\lab\books\mba2.png" width=90px height=100px></td>
            </tr>
            <tr>
                <td>3</td>
                <td>Outliers</td>
                <td>Malcolm Gladwell</td>
                <td>Little, Brown and Company</td>
                <td>&#8377;360</td>
                <td><img src="E:\lab\books\mba3.jpg" width=90px height=100px></td>
            </tr>
            <tr>
                <td>4</td>
                <td>Mastery</td>
                <td>Robert Greene    </td>
                <td>Viking Press</td>
```

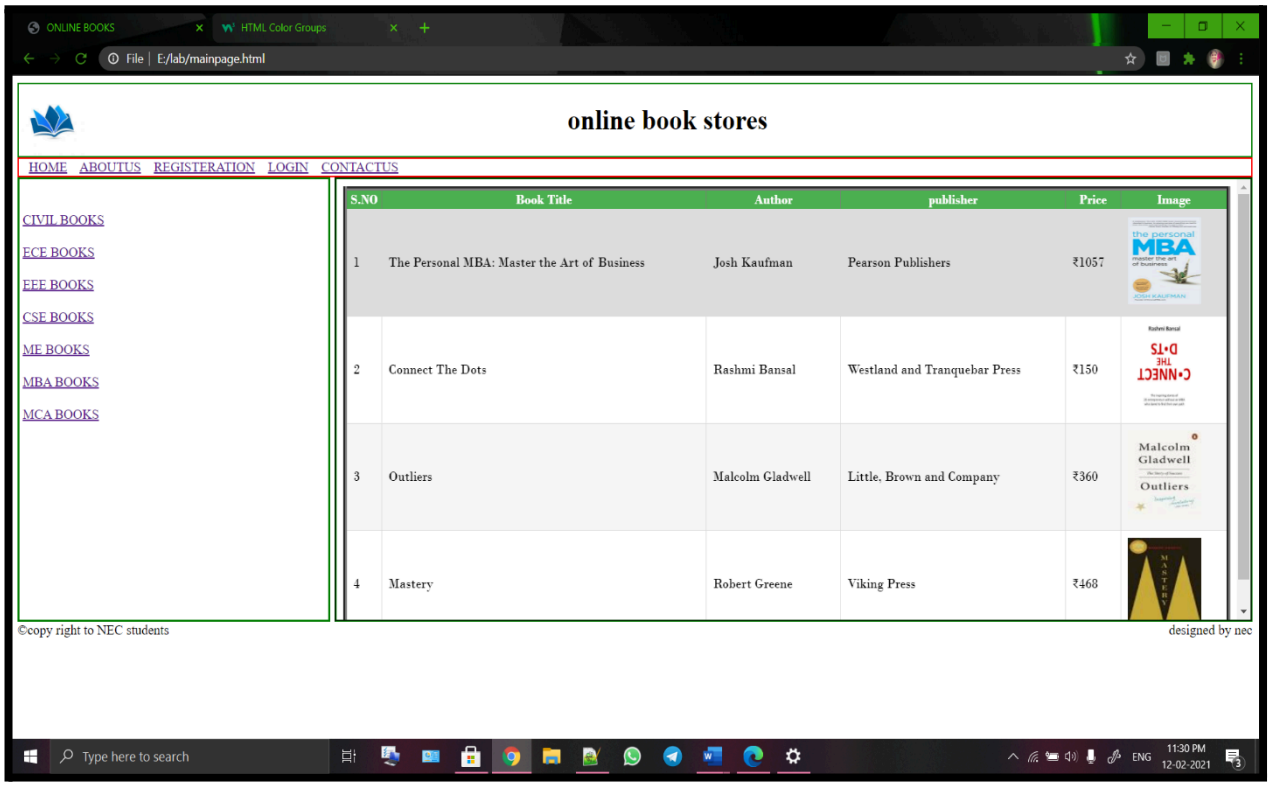
```
                    <td>&#8377;468</td>
                    <td><img src="E:\lab\books\mba4.jpg" width=90px height=100px></td>
                </tr>

            </table>
        </body>
</html>
```

style2.css file contains:

```
table {
  font-family: Bodoni MT;
  border-collapse: collapse;
  width: 100%;
}
td {
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
}
tr:nth-child(even) {
  background-color: #dddddd;
}
tr:hover {background-color: #f5f5f5;}
th {
```

```
 background-color: #4CAF50;  color: white;}
```

output:



Topic	AIM :	S.No	Duration
LAB 4	**a. Apply validation on Registration and Login forms.**	4A	75 mins

LAB 4

PROCEDURE:

Step 1.

Open Notepad or Adobe Dreamweaver or any other Html editor. I am using Dreamweaver. I am suggest to you, use Notepad for better practise.

Step 2.

Copy the below complete HTML code and paste it in your editor.

Step 3.

Now apply the CSS to all Elements for better presentation. First create CSS <style> .. </style> tag in between <head> .. </head> tag like below.

Step 4.

Here we will add JavaScript code for validation check. If textbox will blank, password not match, password not in valid form and email id not valid then it will give error message.

Now create JavaScript <script> .. </script> tag in between <head> .. </head> tag like below example.

Step 5. Final Step

Now save your page with any name with .html extension. Like registration.html. After saving the file, open the file by double clicking on it and see your final output.

CODE : Validated registration form:

registration.html:

```
<html>
<head>
<title>Registration page</title>
<link rel=stylesheet href="style1.css">
<script src="validation.js"></script>
</head>
<body>
<form name="f"  ><br><br>
<table align="center" bgcolor=grey>
<tr>
<td align=right>Name :
<td><input type="text" name="n"  id="n" required>
</tr>
<tr>
<td align=right>Password :
<td><input type="password" name="p"  id="p"  required>
</tr>
<tr>
<td align=right>E-mail id :
<td><input type="text" name="e"  id="e" required>
</tr>
<tr>
<td align=right>Phone number :
<td><input type="text"  maxlength=10 name="ph" id="ph"  required>
</tr>
<tr>
<td align="right">Gender :
```

```
<td><input type="radio" name="g">Male
<input type="radio" name="g">Female
</tr>
<tr>
<td align="right">Date of Birth :
<td>
<input type="date"  name="dob" required>
</tr>
<tr>
<td align="right">Languages:
<td>
<input type=checkbox >English
<input type=checkbox >Telugu
<input type=checkbox >Hindi
<input type=checkbox >Tamil
</tr>
<tr>
<td align="right">opted course:
<td>
<select  id="cources"  name="cource"  required>
<option>select a cource</option>
<option>CE</option>
<option>ECE</option>
<option>ME</option>
<option>CSE</option>
<option>EEE</option>
<option>MBA</option>
<option>MCA</option>
</select>
</tr>
<tr>
```

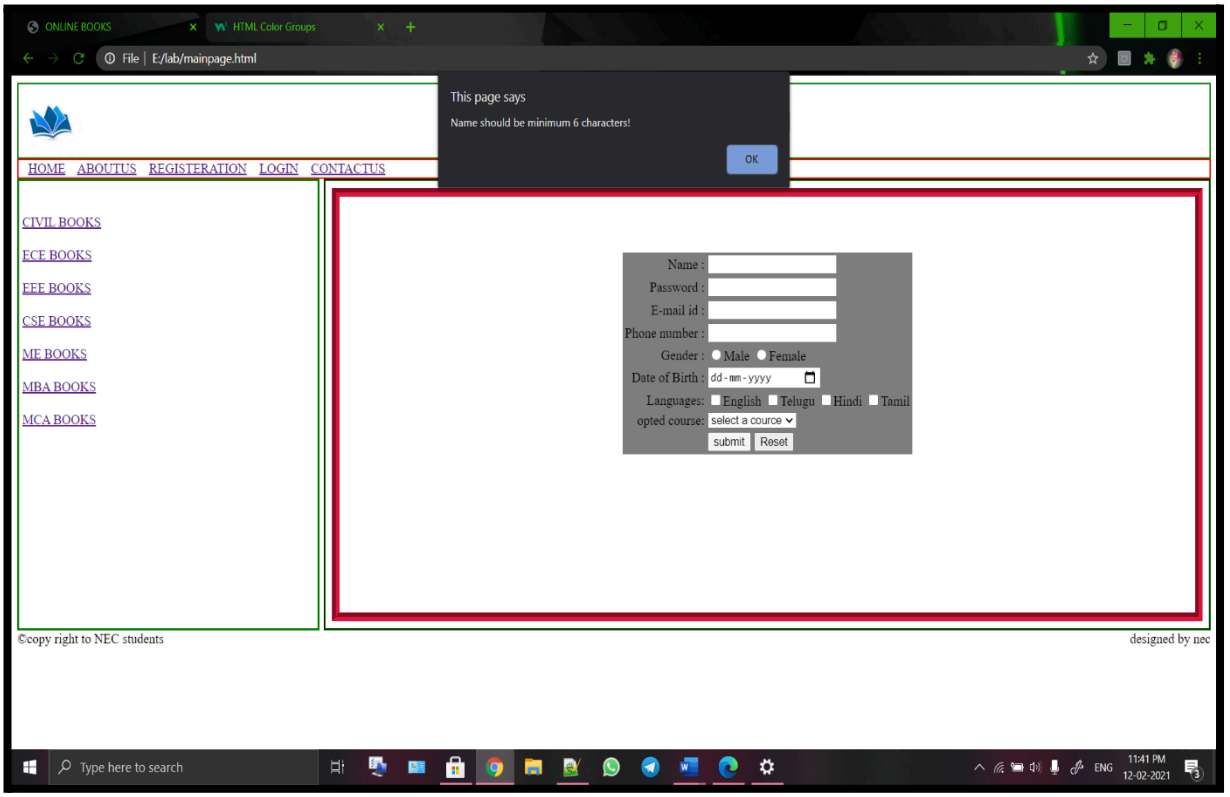
```
<td>
<td><input type="button" value="submit"  onclick=fun()>
 <input type="reset">
</tr>
</table>
</form>
</body>
</html>
```

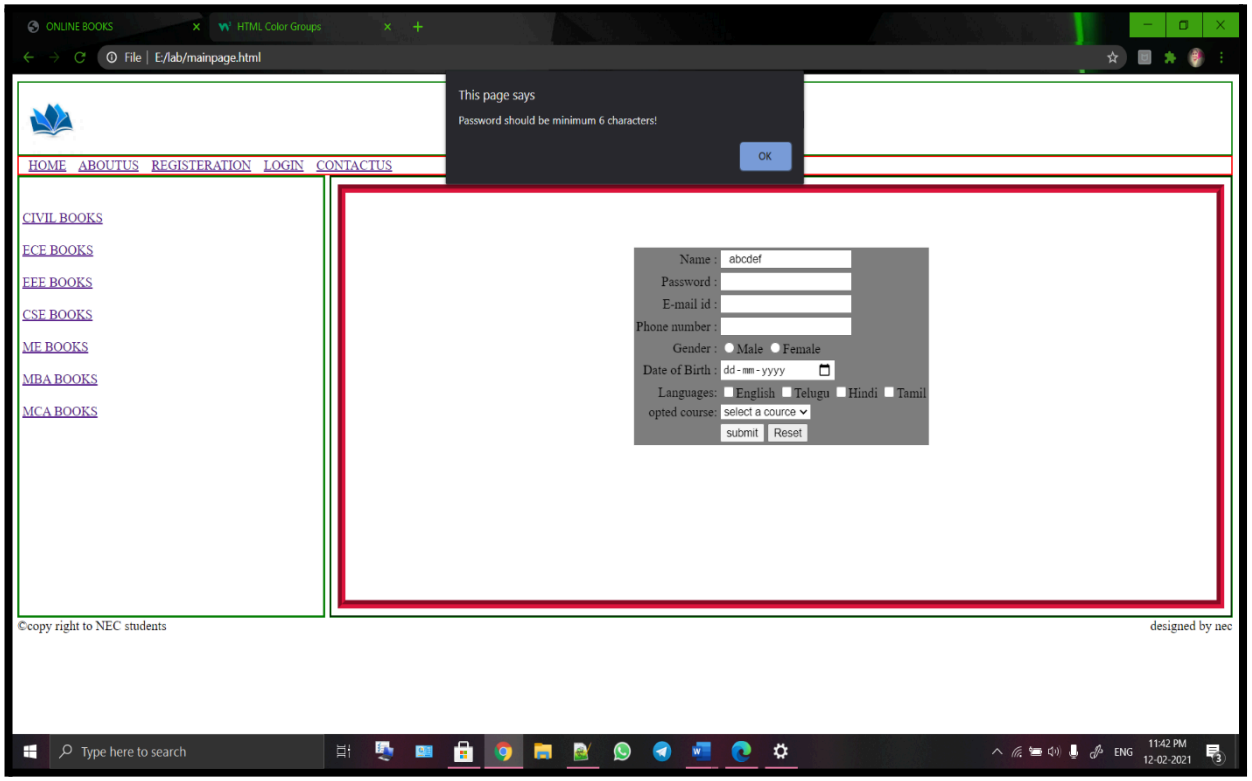
Validation.js contains:

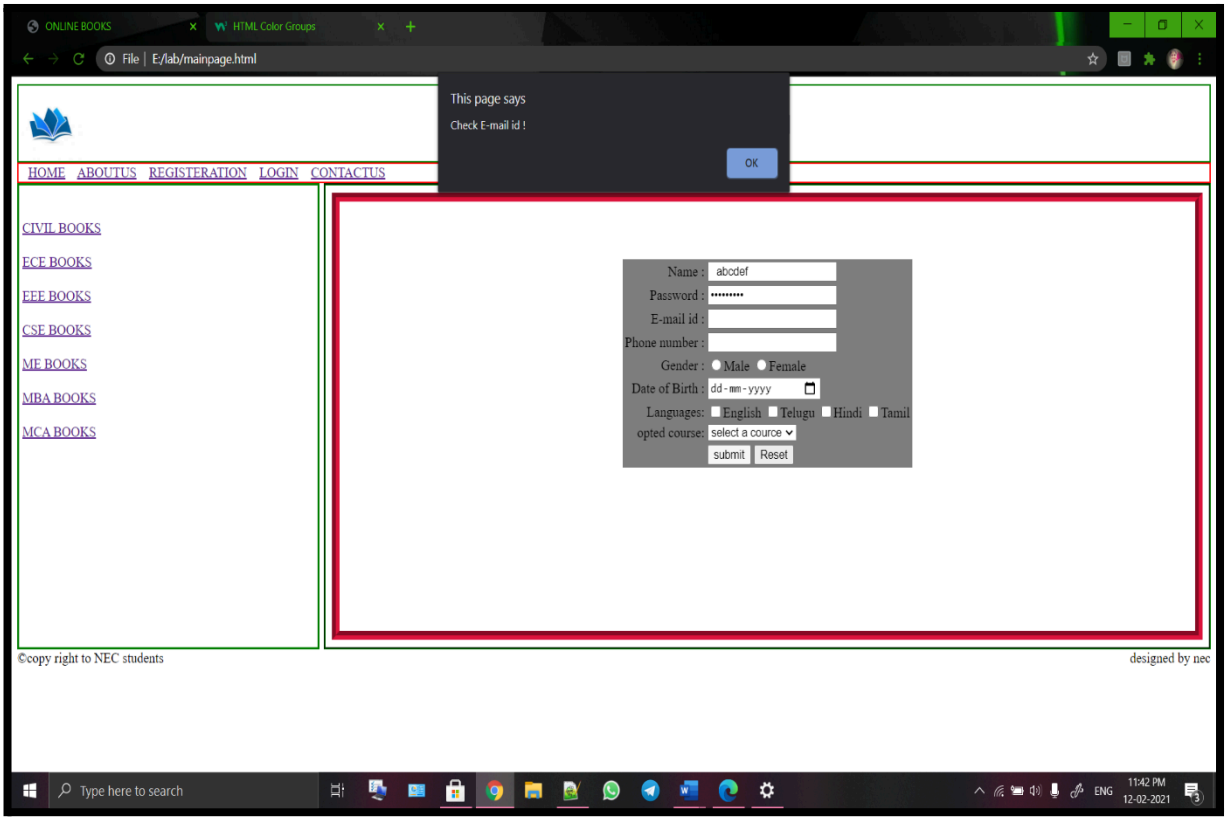
```
function fun()
{
v1=/ \w{6}/;
a1=v1.test(f.n.value);
if(!a1)
{
alert("Name should be minimum 6 characters!");
exit(0);
}
a2=v1.test(f.p.value);
if(!a2)
{
alert("Password should be minimum 6 characters!");
exit(0);
}
v2=/\w{1}@\D{5}.\D{3}/;
```

```
a3=v2.test(f.e.value);

if(!a3)

{

alert("Check E-mail id !");

exit(0);

}

v3=/\d{10}/;

a4=v3.test(f.ph.value);

if(!a4)

{

alert("Enter Correct Phone number !");

exit(0);          }    }
```

Output:




ONLINE BOOKS
HTML Color Groups
File | E:/lab/mainpage.html
This page says
Password should be minimum 6 characters!
OK
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Name : abcdef
Password :
E-mail id :
Phone number :
Gender : Male Female
Date of Birth : dd-mm-yyyy
Languages: English Telugu Hindi Tamil
opted course: select a cource
submit Reset
©copy right to NEC students
designed by nec
Type here to search
ENG 11:42 PM 12-02-2021


ONLINE BOOKS
HTML Color Groups
File | E:/lab/mainpage.html
This page says
Check E-mail id !
OK
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Name : abcdef
Password :
E-mail id :
Phone number :
Gender : Male Female
Date of Birth : dd-mm-yyyy
Languages: English Telugu Hindi Tamil
opted course: select a cource
submit Reset
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Type here to search
ENG 11:42 PM 12-02-2021

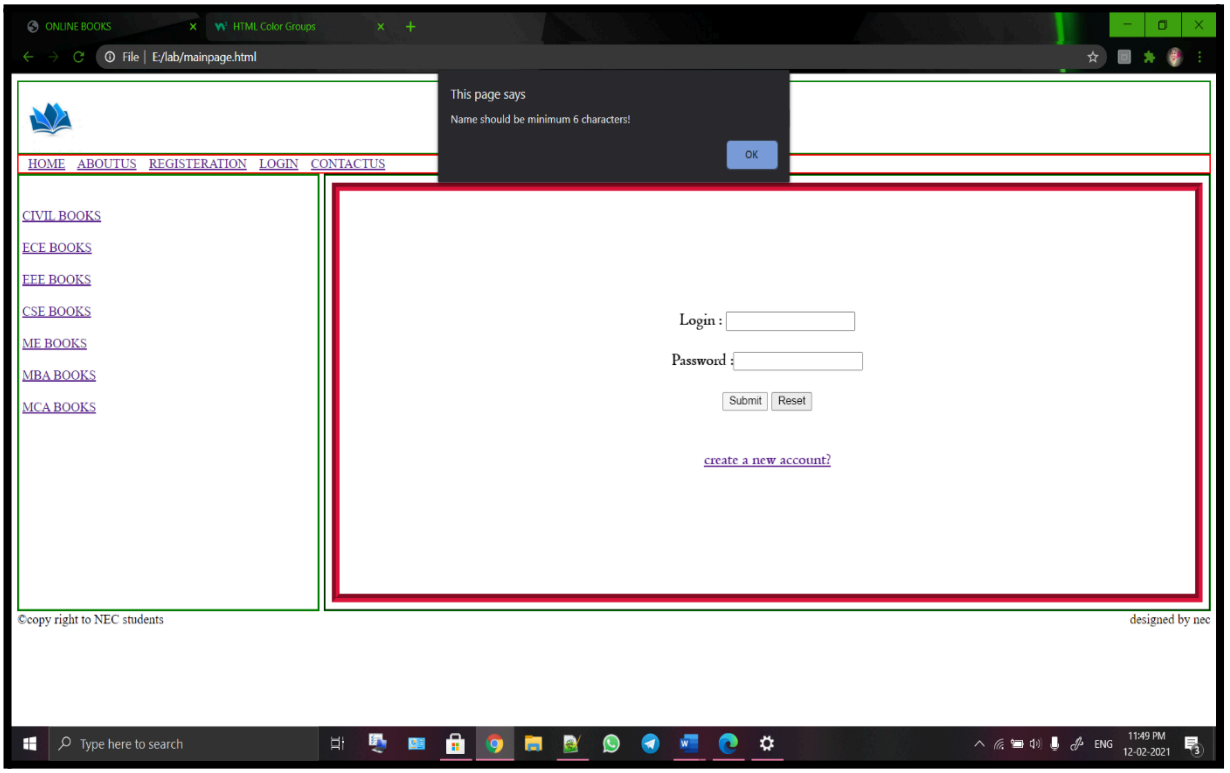
CODE : Validation for login form:

login.html:

```
<html>
<head>
<title>Login page</title>
<link rel=stylesheet href="style1.css">
<script>
function fun()
{
v1=/ \w{6}/;
a1=v1.test(f.n.value);
if(!a1)
{
alert("Name should be minimum 6 characters!");
exit(0);
```

```
}
a2=v1.test(f.p.value);
if(!a2)
{
alert("Password should be minimum 6 characters!");
exit(0);
}
}
</script>
</head>
<body>
<br><br><br><br><br>
<form name="f">
<p align=center>
Login : <input type="text" name="n"><br><br>
Password :<input type="password" name="p"><br><br>
<input type="submit" value="Submit" name="sub" onclick="fun()">
<input type="reset" value="Reset" name="sub"><br><br><br>
<a href=”registration.html” target=”_blank”>create a new account?</a>
</p>
</form>
</body>
</html>
```

Output:


ONLINE BOOKS
HTML Color Groups
File | E:/lab/mainpage.html
This page says
Name should be minimum 6 characters!
OK
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Login :
Password :
Submit Reset
create a new account?
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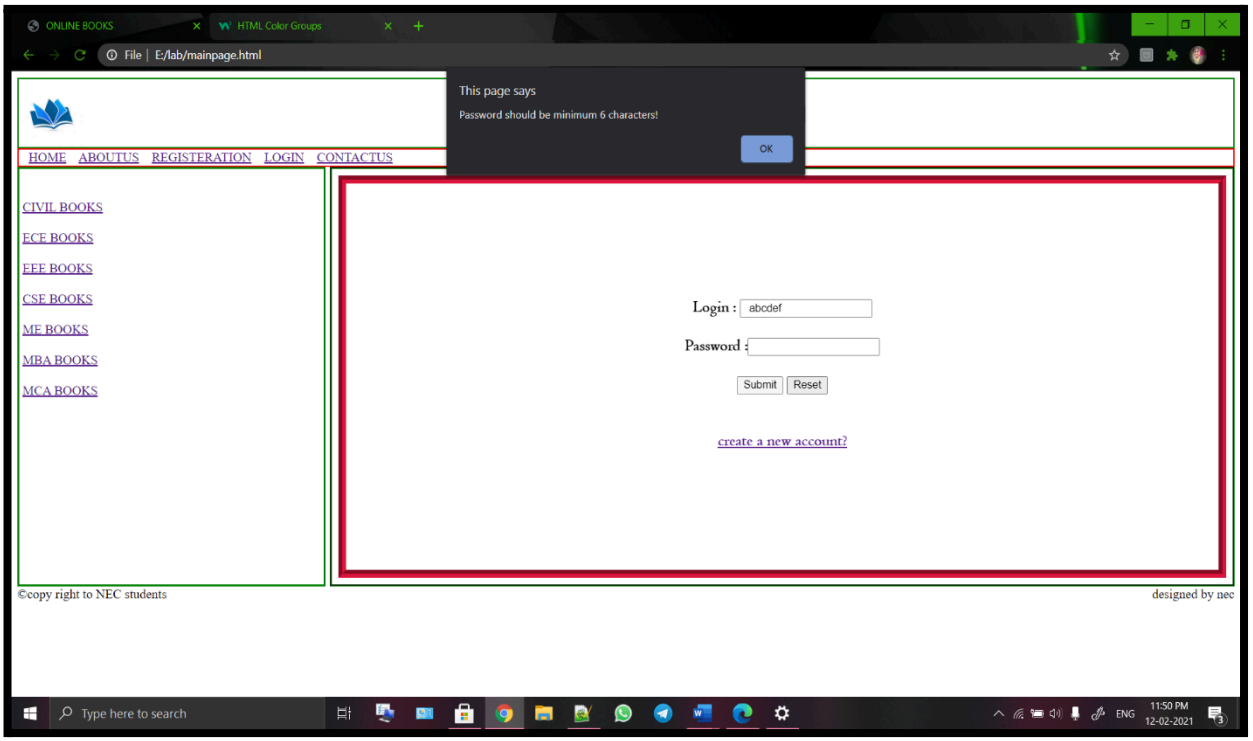
ENG
11:49 PM
12-02-2021


ONLINE BOOKS
HTML Color Groups
File | E:/lab/mainpage.html
This page says
Password should be minimum 6 characters!
OK
HOME ABOUTUS REGISTERATION LOGIN CONTACTUS
CIVIL BOOKS
ECE BOOKS
EEE BOOKS
CSE BOOKS
ME BOOKS
MBA BOOKS
MCA BOOKS
Login : abcdef
Password :
Submit Reset
create a new account?
©copy right to NEC students
designed by nec
Type here to search
ENG
11:50 PM
12-02-2021

Topic	AIM :	S.No	Duration
LAB 4	**b. In contactus.html web-page add Google maps.**	4B	75 mins

POCEDURE:

STEP1 : Go to Google Maps.
STEP2 : Enter the business address in the search bar, then click the search button.
STEP3 : Click on the Share icon.
STEP4: Choose "Embed map"
STEP5 : Select the size of the map from the drop down.
STEP6 : Select and copy the HTML iframe embed code.

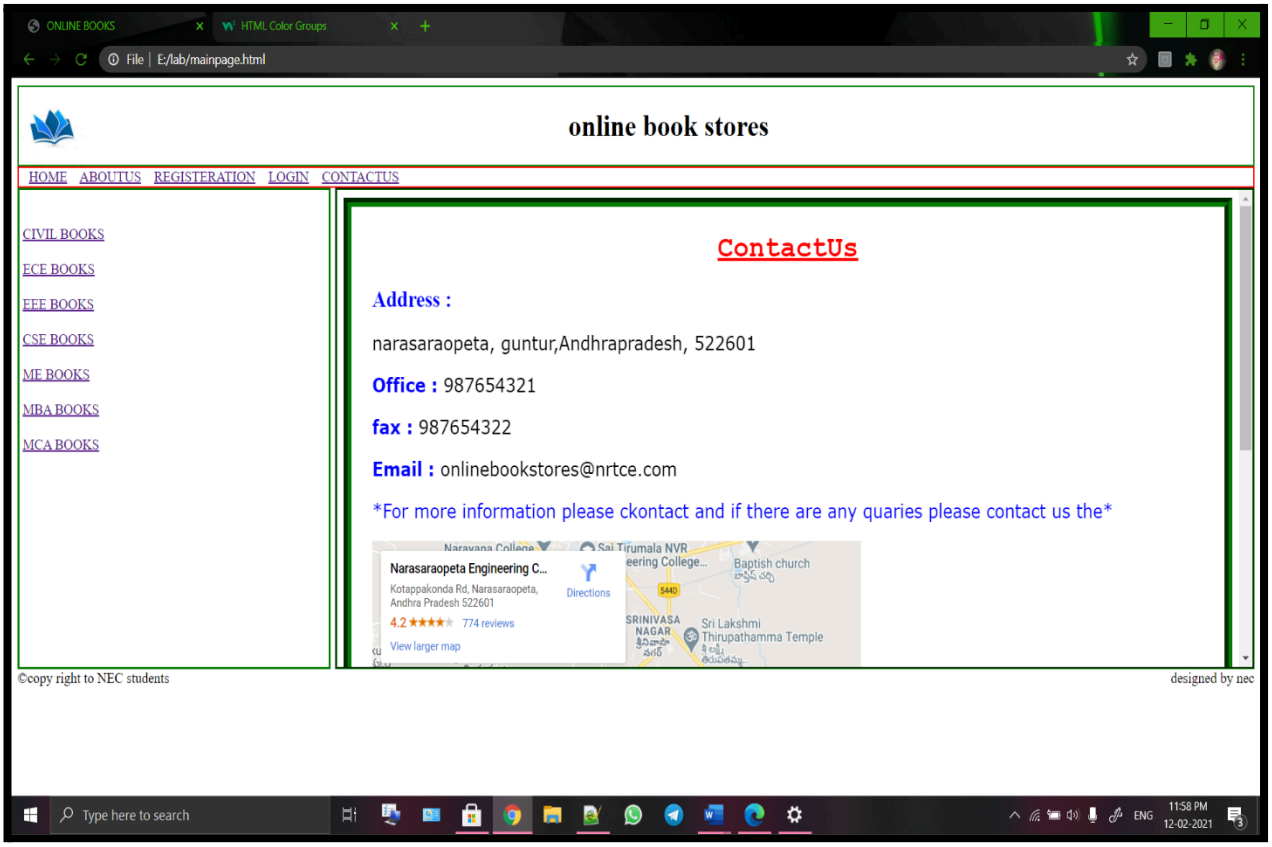
CODE : Contactus.html:

```
<html>
    <head>
        <title>Contactus</title>
        <style type="text/css">
        body{border-style: solid;
          border-width: 10px;
         border-color:green;
```

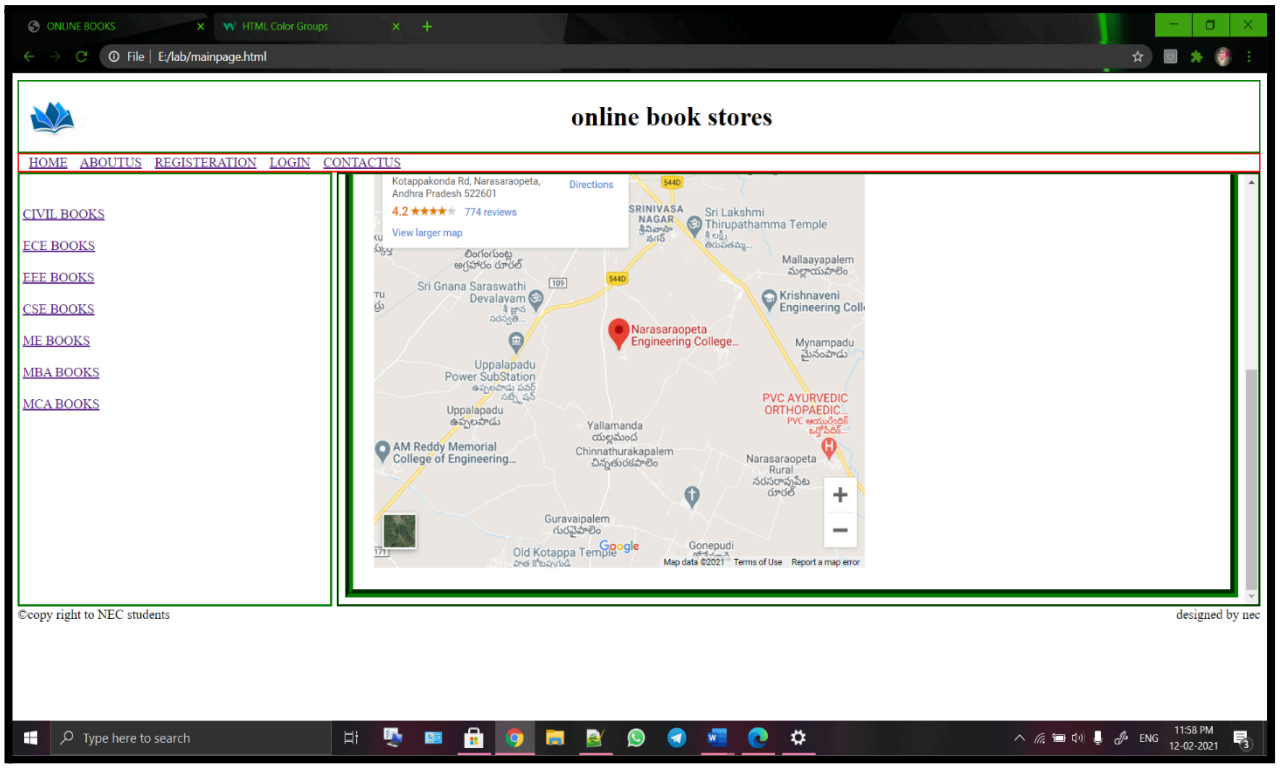
```
            border-style:groove;
            padding: 25px;}
            h1{color:red;
            font-family:courier;
            text-decoration:underline;}

            p{font-size:20px;
            font-family:verdana;
            align:center;}
            p>b{color:blue;}
            h2{color:blue;}
            .mapouter{position:relative;
                  text-align:right;
                  height:500px;
                  width:600px;}
            .gmap_canvas {overflow:hidden;
                        background:none!important;
                        height:500px;
                        width:600px;}
            </style>
      </head>
      <body>
            <h1 align="center">ContactUs</h1>
            <h2>Address :</h2>
            <p>narasaraopeta, guntur,Andhrapradesh, 522601</p>
            <p><b>Office : </b>987654321</p>
            <p><b>fax : </b>987654322</p>
            <p><b>Email :</b> onlinebookstores@nrtce.com</p>
            <p style="color:blue">*For more information please contact and if there are any quaries
please contact us the*</P>
            <div class="mapouter">
```

```
            <div class="gmap_canvas">
            <iframe width="600" height="500" id="gmap_canvas"
src="https://maps.google.com/maps?q=narsaraopet%20engineering%20college&t=&z=13&ie=UTF8&iwloc
=&output=embed" frameborder="0" scrolling="no" marginheight="0" marginwidth="0">
            </iframe>
            <a href="https://www.online-timer.net">timer</a><br>
            <a href="https://www.embedgooglemap.net"></a>
            </div>
            </div>
        </body>
</html>
```

Output:



Topic	AIM :	S.No	Duration
LAB 5	**a. Design HTML5 web page by embedding Audio, Video elements.**	5A	50 mins



1. Create a new HTML file in the same directory, called index. html .
2. **Add <audio> and <video> elements** to the page; make them display the default browser controls. Give both of them <source> elements so that browsers will find the audio format they support best and load it.

Attributes we can include are:

src This attribute stands for the source, which is very similar to the src attribute used in the image element. We will add the link to a video file in the src attribute.
type This is going to be video/mp4 because .mp4 is the format of the video we are using. We can also use different video formats like .ogg or .webm, then the value of type attribute will change to video/ogg or video/WebM respectively.

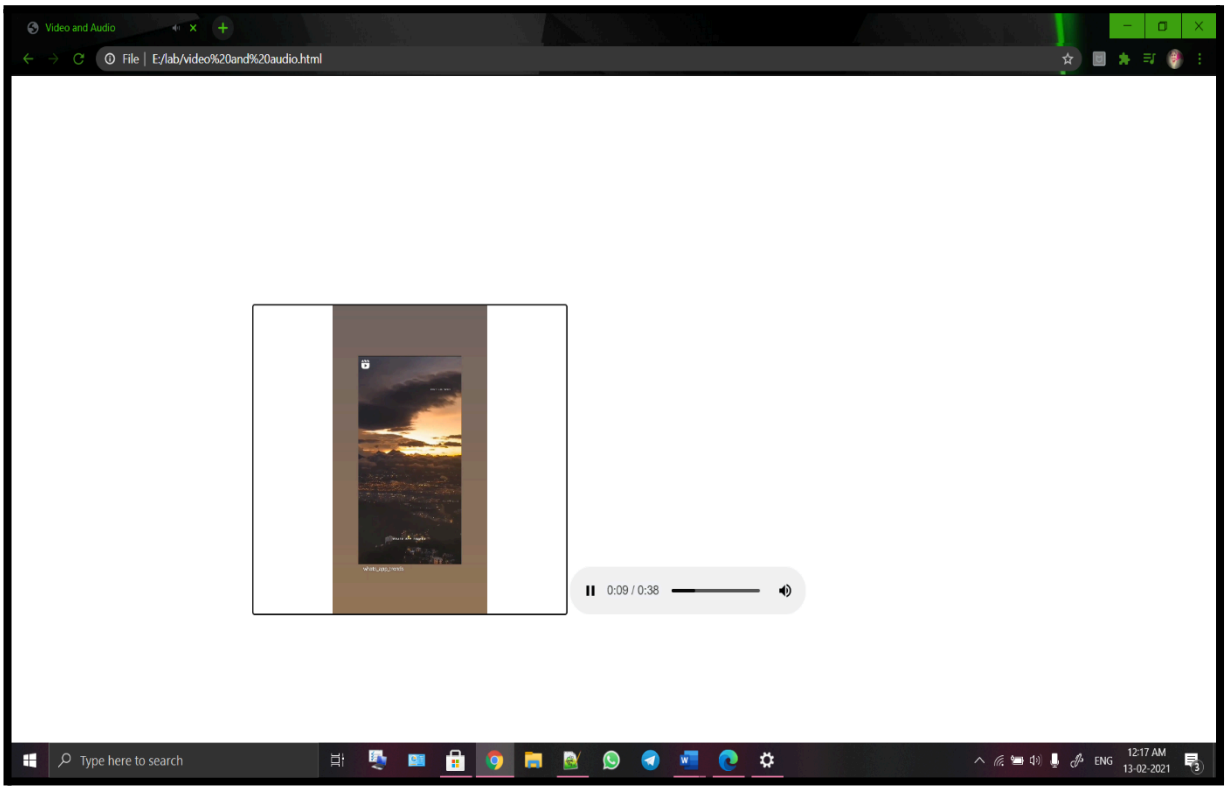
CODE : video and audio.html:

```
<!DOCTYPE html>

<html>

<head>

<title>Video and Audio</title>
```

```
<style type="text/css">
#video{
        margin-left:300px;
        margin-top:250px;
        }
</style>
</head>
<body>
<video id="video" width="400" height="350" controls>
        <source src="video.MP4">
        Browser doesnot support HTML5 video element
</video>
<audio id="audio" controls>
        <source src="song.MPEG">
        Browser doesnot support HTML5 audio element
</audio>
</body>
</html>
```

Output:

Topic	AIM :	S.No	Duration
LAB 5	**b. Write HTML5 and JavaScript code to draw Arc, Circle, Rectangle and Triangle using Canvas.**	5B	150 mins



PROCEDURE:

You can draw arcs on canvas using the arc() method. Before going details on drawing arcs, here's a brief overview on radian and angle :

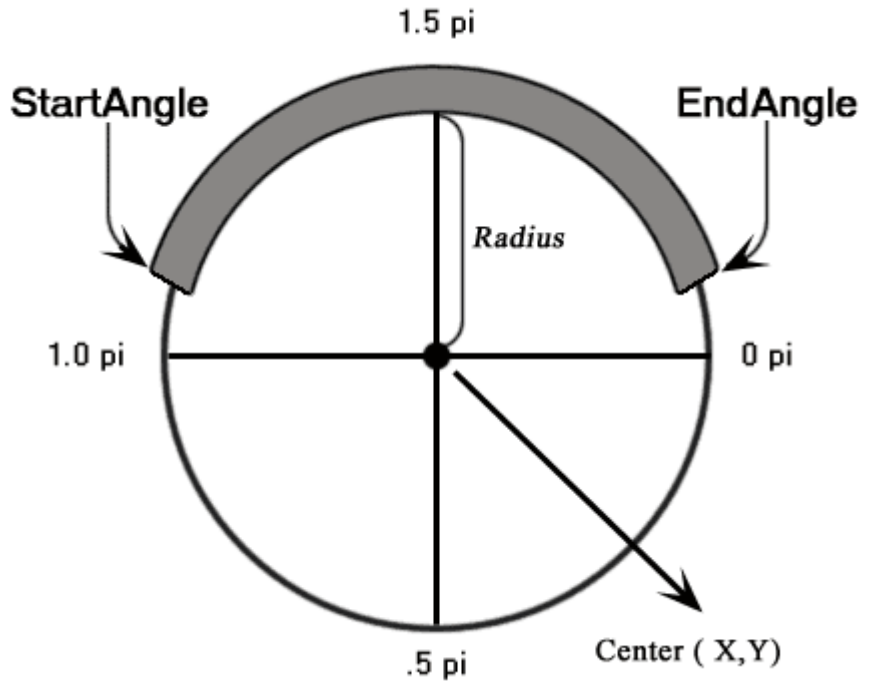
The radian is the standard unit of angular measure, used in many areas of mathematics. An angle's measurement in radians is numerically equal to the length of a corresponding arc of a unit circle, so one radian is just under 57.3 degrees (when the arc length is equal

to the radius). The radian is represented by the symbol rad An alternative symbol is the superscript letter c.

Use the following formula to convert degrees to radians:

```
var radians = degrees * Math.PI/180
```

arc Method: arc(x, y, radius, startAngle, endAngle, direction)

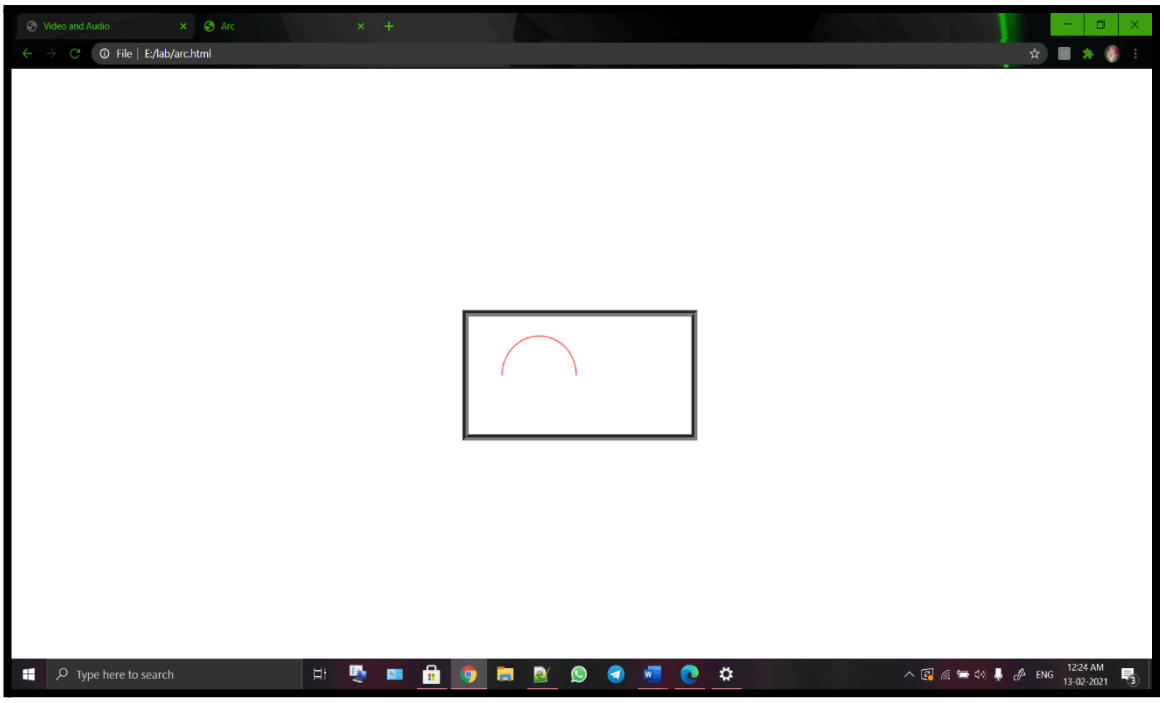


CODE : <u>To draw an arc</u>:

```
<!DOCTYPE html>
<html>
<head>
<title>Arc</title>
<style type="text/css">
#mycanvas{
        margin-left:600px;
        margin-top:300px;
```

```
        border:8px groove grey;
        }
</style>
</head>
<body>
<canvas id="mycanvas" width="300" height="150" >Browser doesn't support HTML5 canvas tag</canvas>
<script type="text/javascript">
var canvas=document.getElementById('mycanvas');
var c=canvas.getContext('2d');
c.strokeStyle='red'
c.beginPath();
c.arc(95, 75, 50, 0,Math.PI,true);
c.stroke();
</script>
</body>
</html>
```

Output:

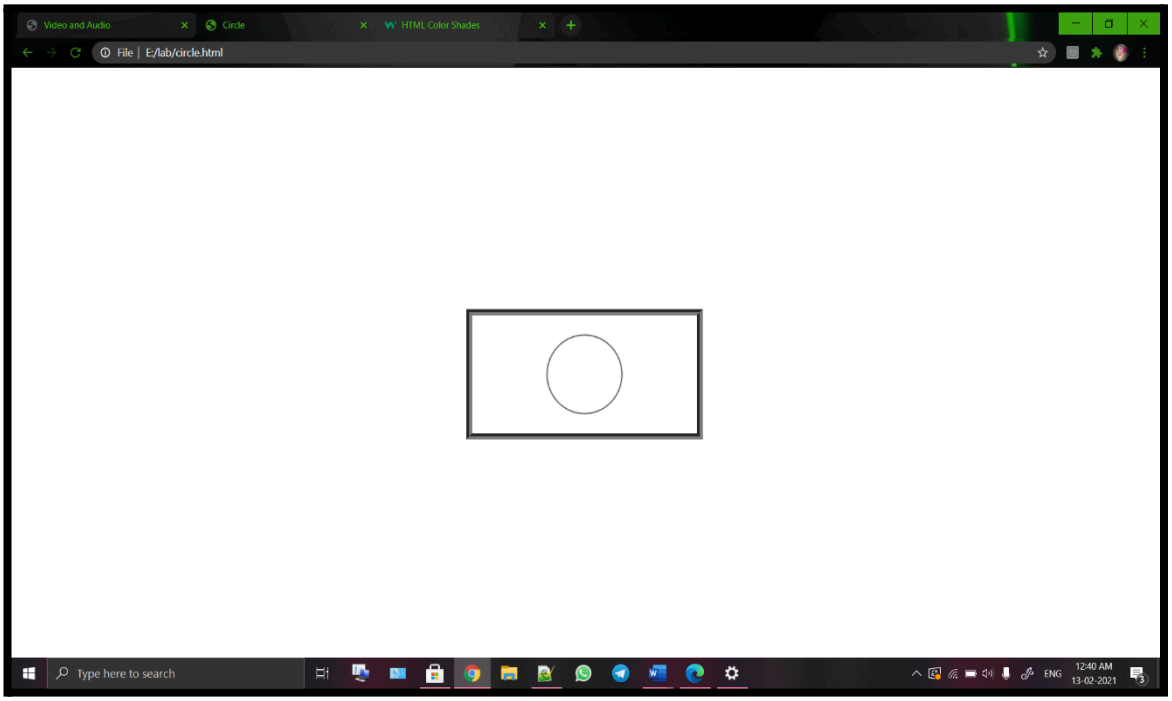


CODE : To draw an circle:

```
<!DOCTYPE html>
<html>
<head>
<title>Circle</title>
<style type="text/css">
#myCanvas{
        margin-left:600px;
        margin-top:300px;
        border:8px groove grey;
```

```
}
</style>
</head>
<body>

<canvas id="myCanvas" width="300" height="150" > Browser doesn't  support HTML5 canvas tag.</canvas>
<script>
var canvas = document.getElementById("myCanvas");
var c = canvas.getContext("2d");
c.strokeStyle=('black');
c.beginPath();
c.arc(150, 75, 50, 0, 2 * Math.PI);
c.stroke();
</script>
</body>
</html>
```

Output:

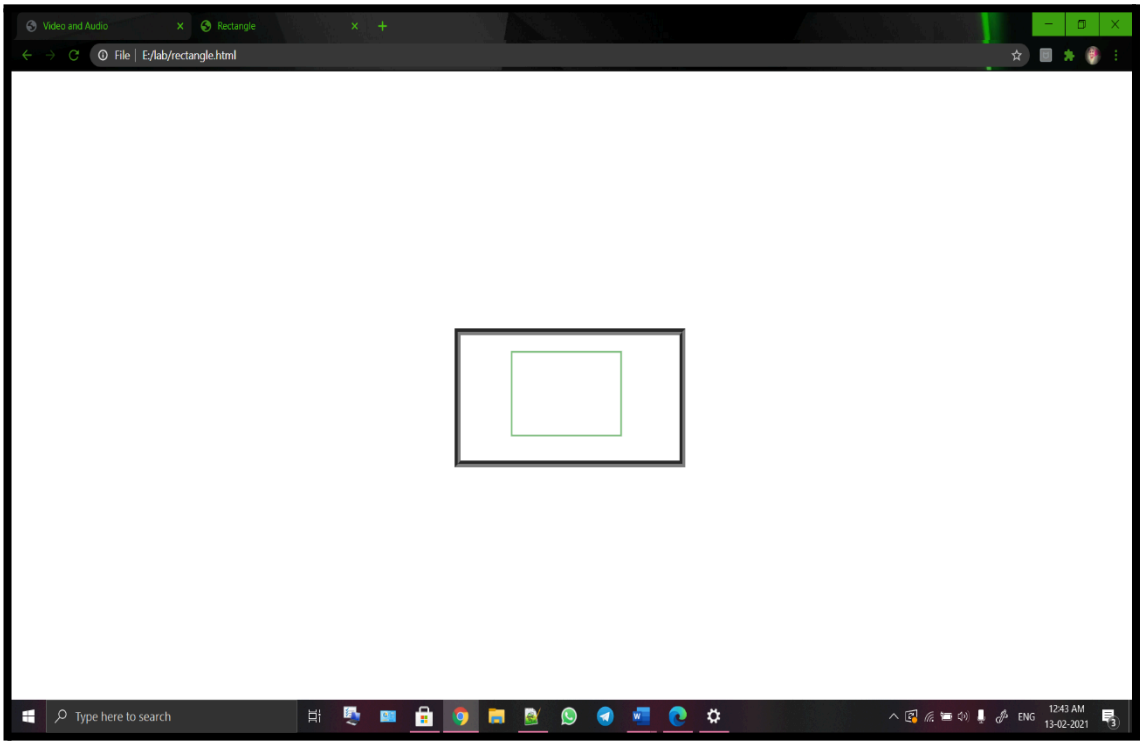


CODE : To draw rectangle:

<!DOCTYPE html>

```
<html>
<head>
<title>Rectangle</title>
<style type="text/css">
#Mycanvas{
        margin-left:600px;
        margin-top:300px;
        border:8px groove grey;
        }
</style>
</head>
<body>
<canvas id="Mycanvas" width="300" height="150" >Browser doesn't support HTML5 canvas tag</canvas>
<script>
var canvas=document.getElementById('Mycanvas');
var c=canvas.getContext('2d');
c.strokeStyle=('green');
c.strokeRect(70,20,150,100);
</script>
</body>
</html>
```

Output:

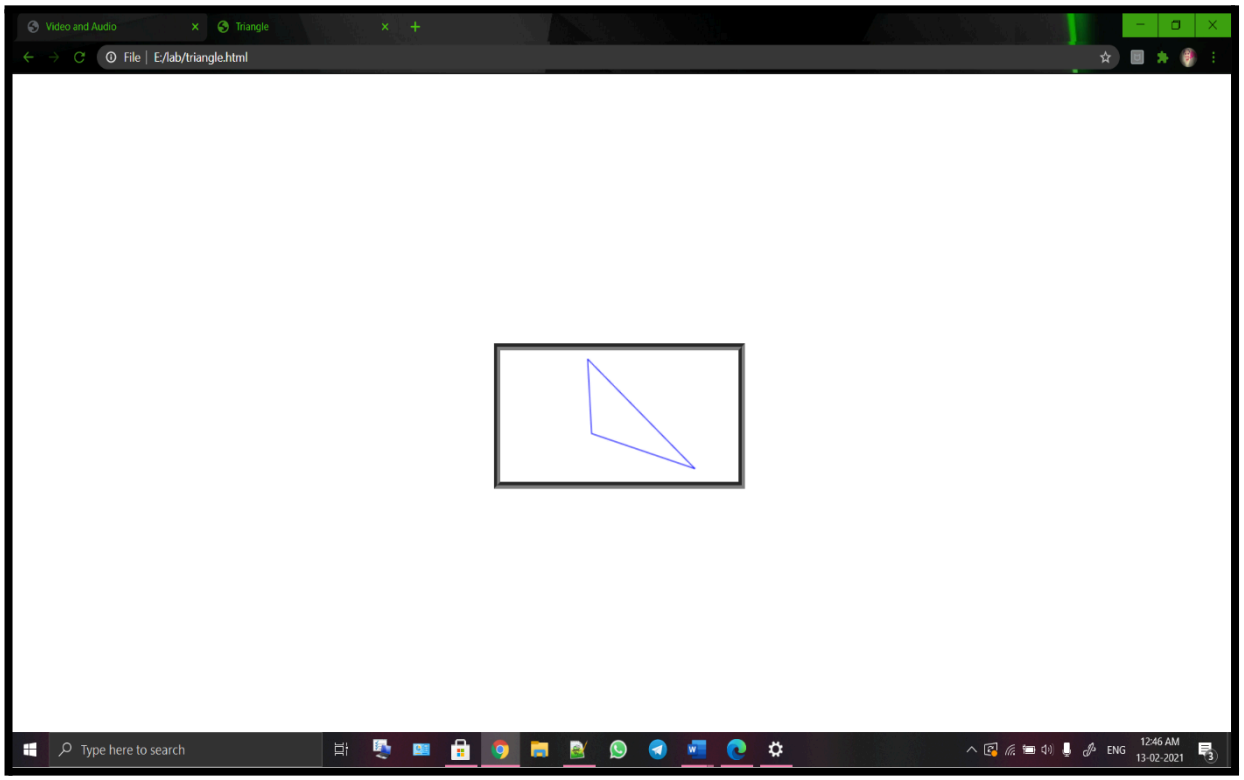


CODE : To draw triangle:

```
<!DOCTYPE html>

<html>
```

```
<head>
<title>Triangle</title>
<style type="text/css">
        #MyCanvas{
            margin-left:600px;
            margin-top:300px;
            border:8px groove grey;}
</style>
</head>
<body>
<canvas id="MyCanvas" width="300" height="150" >Browser doesn't support HTML5 canvas tag</canvas>
<script type="text/javascript">
var canvas=document.getElementById('MyCanvas');
var c=canvas.getContext('2d');
c.strokeStyle=('blue');
c.beginPath();
c.moveTo(110,10);
c.lineTo(245,135);
c.lineTo(115,95);
c.lineTo(110,10);
c.stroke();
</script>
</body>
  </html>
```

Output:


Video and Audio
Triangle
File | E/lab/triangle.html
Type here to search
ENG
12:46 AM
13-02-2021

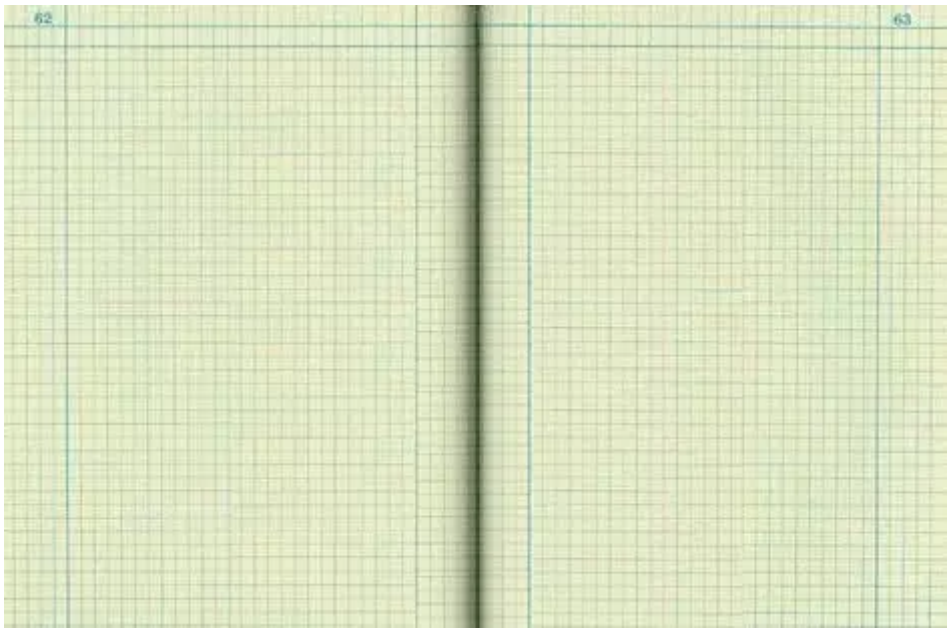
Topic	AIM :	S.No	Duration
LAB 6	**Bootstrap Concepts on Grid System, Menus.**	6	150 mins

Bootstrap Grid System

What is the Bootstrap Grid System?

Like any grid system, the Bootstrap grid is a library of HTML/CSS components that allow you to structure a website and place a website's content in desired locations easily.

Think of graph paper, where every page has a set of vertical and horizontal lines. When these lines intersect, we get squares or rectangular spaces.



Well, this is also true for Bootstrap's Grid System. It allows you to create rows and columns and then place content in the "intersected" areas.

Now the question is, how many rows and columns you can create using Bootstrap's Grid System? Bootstrap allows you to create up to **12 columns** and **unlimited rows** — hence the name **12-Grid System**. So, let's see how we can utilize this grid system to create various types of layouts.

Getting started with Bootstrap's Grid System

Bootstrap's Grid System is made up of 3 things:

1. A container
2. Rows
3. Columns

Let's explore each of the above in detail.

Creating a Container

Bootstrap's grid system needs a container to hold rows and columns. A container is a simple element with a class of .container. The container is used to provide a proper width for the layout, acting as a wrapper for the content.

HTML CODE

```
<div class="container">
  <h1>Bootstrap Grid demo</h1>
</div>
<p class="p">Demo by Syed Fazle Rahman. <a href="understanding-bootstrap-grid-system">See article</a>.</p>
```

CSS FILE

```
body {
  padding-top: 40px;
}
.container {
  background: #ccc;
}
.p {
  text-align: center;
  padding-top: 120px;
}
.p a {
  text-decoration: underline;
  color: blue;
}
```

Just note that both fixed and fluid containers have padding of 15px on the left and right sides.

Creating a Row

A row acts like a wrapper around the columns. The row nullifies the padding set by the container element by using a negative margin value of -15px on both the left and right sides.

A row spans from the left edge to the right edge of the container element. It is created by adding the class .row to a block level element inside the container.

HTML CODE

```
<div class="container">
  <div class="row">
    <h1>Bootstrap Grid demo with row</h1>
  </div>
</div>
<p class="p">Demo by Syed Fazle Rahman. <a href="understanding-bootstrap-grid-system">See article</a>.</p>
```

CSS CODE

```
body {
  padding-top: 40px;
}
.container {
  background: #ccc;
}
.p {
  text-align: center;
  padding-top: 120px;
}
.p a {
  text-decoration: underline;
  color: blue;
}
```

In this demo, you can see the text touching the left edge of the container element. This is because the container's padding has been removed by the row due to the negative margins on the row.

Finally, there's no limit on the number of rows you can create.

Creating Columns

Bootstrap uses different column class prefixes for different sized devices. These prefixes are shown in the table below:

Class Prefix	Device Size
.col-xs-	<768px
.col-sm-	768px to 991px
.col-md-	992px to 1199px
.col-lg-	≥ 1200px

HTML CODE

```
<div class="container">
  <div class="row">
    <div class="col-xs-12">
      <h1>Bootstrap Grid demo with row and column</h1>
    </div>
  </div>
</div>
<p class="p">Demo by Syed Fazle Rahman. <a href="understanding-bootstrap-grid-system">See article</a>.</p>
```

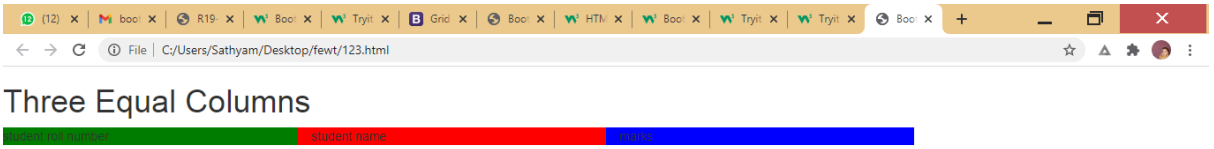
CSS CODE

```
body {
  padding-top: 40px;
}
.container {
  background: #ccc;
}
.p {
  text-align: center;
  padding-top: 120px;
}
```

```
.p a {
  text-decoration: underline;
  color: blue;
}
```

Simple example program for creating a Three Equal Columns.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>

  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
<div >
  <h1>Three Equal Columns</h1>

  <div class="row">
    <div class="col-sm-4" style="background-color:green;">student roll number</div>
    <div class="col-sm-4" style="background-color:red;">student name</div>
    <div class="col-sm-4" style="background-color:blue;">marks</div>
  </div>
</div>

</body>
</html>
```



Button Styles

Bootstrap provides different styles of buttons:

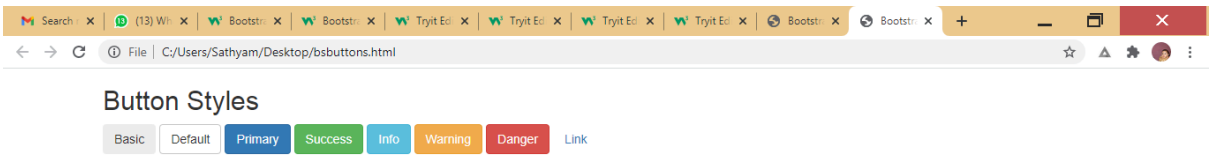
Basic Default Primary Success Info Warning Danger Link

To achieve the button styles above, Bootstrap has the following classes:

- `.btn`
- `.btn-default`
- `.btn-primary`
- `.btn-success`
- `.btn-info`
- `.btn-warning`
- `.btn-danger`
- `.btn-link`

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
```

```
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Styles</h2>
  <button type="button" class="btn">Basic</button>
  <button type="button" class="btn btn-default">Default</button>
  <button type="button" class="btn btn-primary">Primary</button>
  <button type="button" class="btn btn-success">Success</button>
  <button type="button" class="btn btn-info">Info</button>
  <button type="button" class="btn btn-warning">Warning</button>
  <button type="button" class="btn btn-danger">Danger</button>
  <button type="button" class="btn btn-link">Link</button>
</div>

</body>
</html>
```



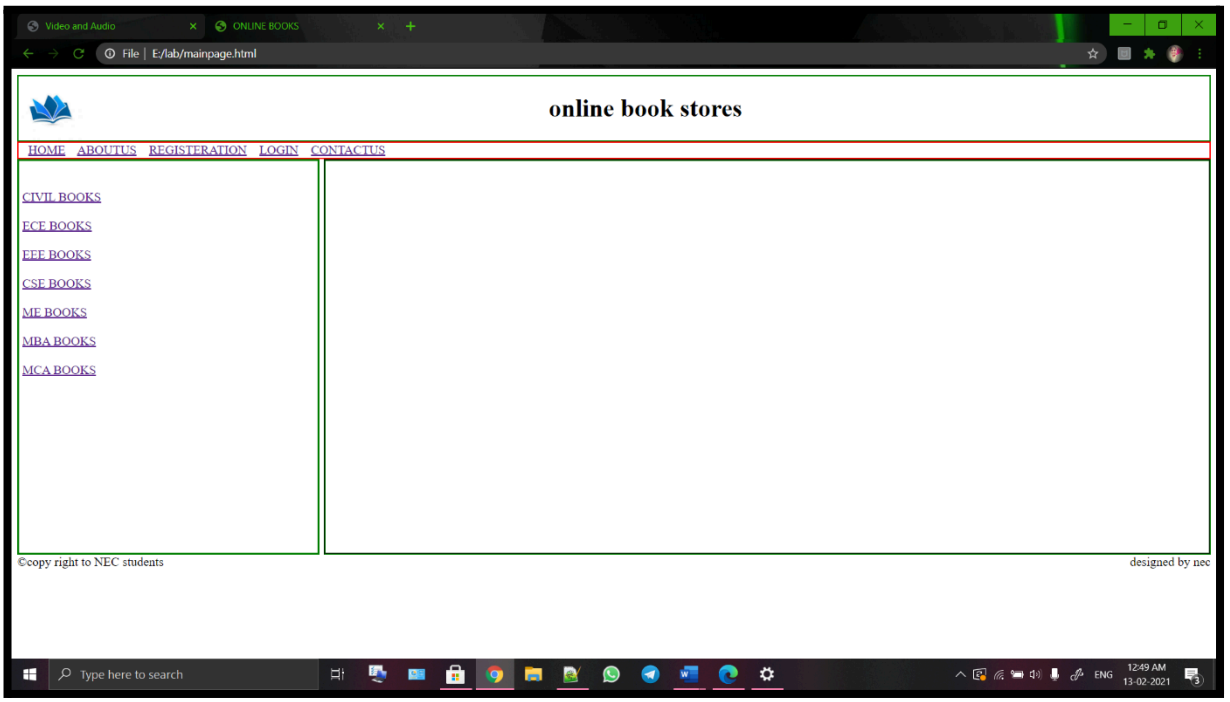
Topic	AIM :	S.No	Duration
LAB 7	**Create index.html page and design it as shown in above screen (Hint: Use Bootstrap Grid System, Horizontal and vertical menus, footer, table etc.)**	7	150 mins

CODE : mainpage.html:

```
<!DOCTYPE HTML>
<html>
<head>
<title>ONLINE BOOKS</title>
</head>
<body>
<header style="border:2px solid green">
<img src="logo1.jfif" align="left" width="80px" height="80px"></img>
<h1 align="center">online book stores</h1>
</header>
<nav style="border:2px solid red">
           <a href="welcome.html" target="framea" >HOME</a>   
        <a href="aboutus.html" target="framea">ABOUTUS</a>   
        <a href="registration.html" target="framea">REGISTERATION</a>   
        <a href="login.html" target="framea">LOGIN</a>   
        <a href="contactus.html" target="framea">CONTACTUS</a>   
</nav>
<aside style="float:left;width:25%;height:500px;border:solid green">
        <br><br>
         <a href="civil.html" target="framea">CIVIL BOOKS</a><br><br>
         <a href="ece.html" target="framea">ECE BOOKS</a><br><br>
```

```
 <a href="eee.html" target="framea">EEE BOOKS</a><br><br>

 <a href="cse.html" target="framea">CSE BOOKS</a><br><br>

 <a href="mech.html" target="framea">ME BOOKS</a><br><br> 
<a href="mba.html" target="framea">MBA BOOKS</a><br><br>

 <a href="mca.html" target="framea">MCA BOOKS</a><br><br>

</aside>

<iframe name="framea" style="border:solid
green;border-style:groove;height:500px;width:74%;float:right"></iframe>

<footer>

<span>&copycopy right to NEC students</span>

<span style="float:right">designed by nec</span>

</footer>

</body>

</html>
```

Output:



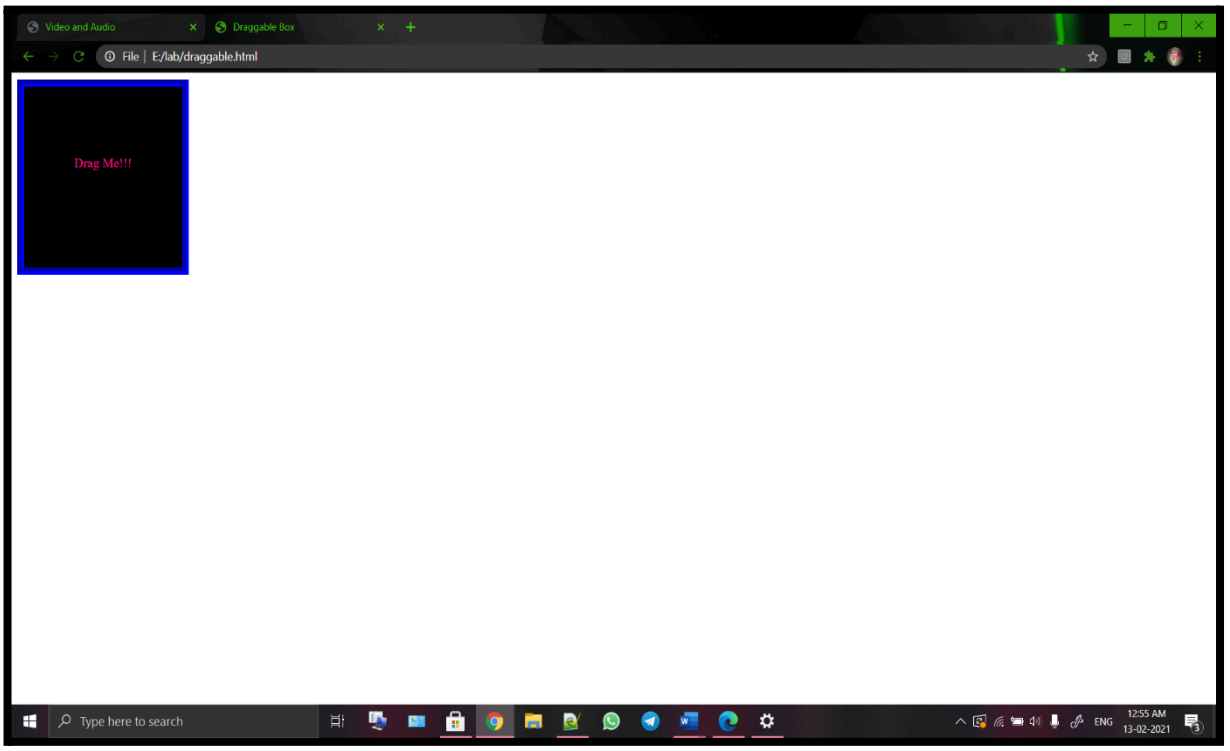
Topic	AIM :	S.No	Duration
LAB 8	**Write a jQuery code to make draggable Rectangle**	8	150 mins

CODE : draggable.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Draggable Box</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>
<style>
#draggable{
                                text-align: center;
                                width:200px;
                                height:150px;
                                padding-top:65px;
                                background-color:black;
                                border:9px groove blue;
                                }
        p{
                color:Deeppink;
                }
</style>
<script>
$(document).ready(function(){
$("#draggable").draggable();
```

```
});
</script>
</head>
<body>
<div id="draggable" style="color:white">
<p>Drag Me!!!</p>
</div>
</body>
</html>
```

Output:



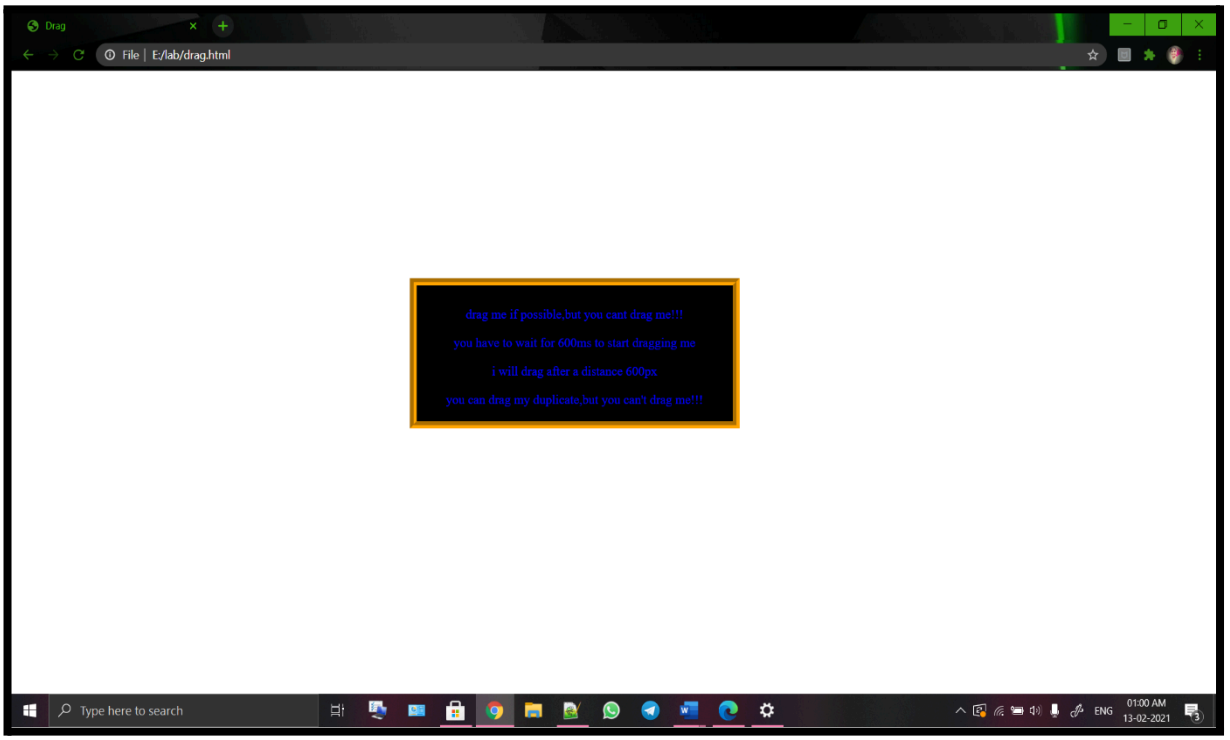
Topic	AIM :	S.No	Duration
LAB 9	**Write jQuery code to demonstrate the usage of important options disabled, delay, distance and clone in the drag function of jQuery UI.**	9	150 mins

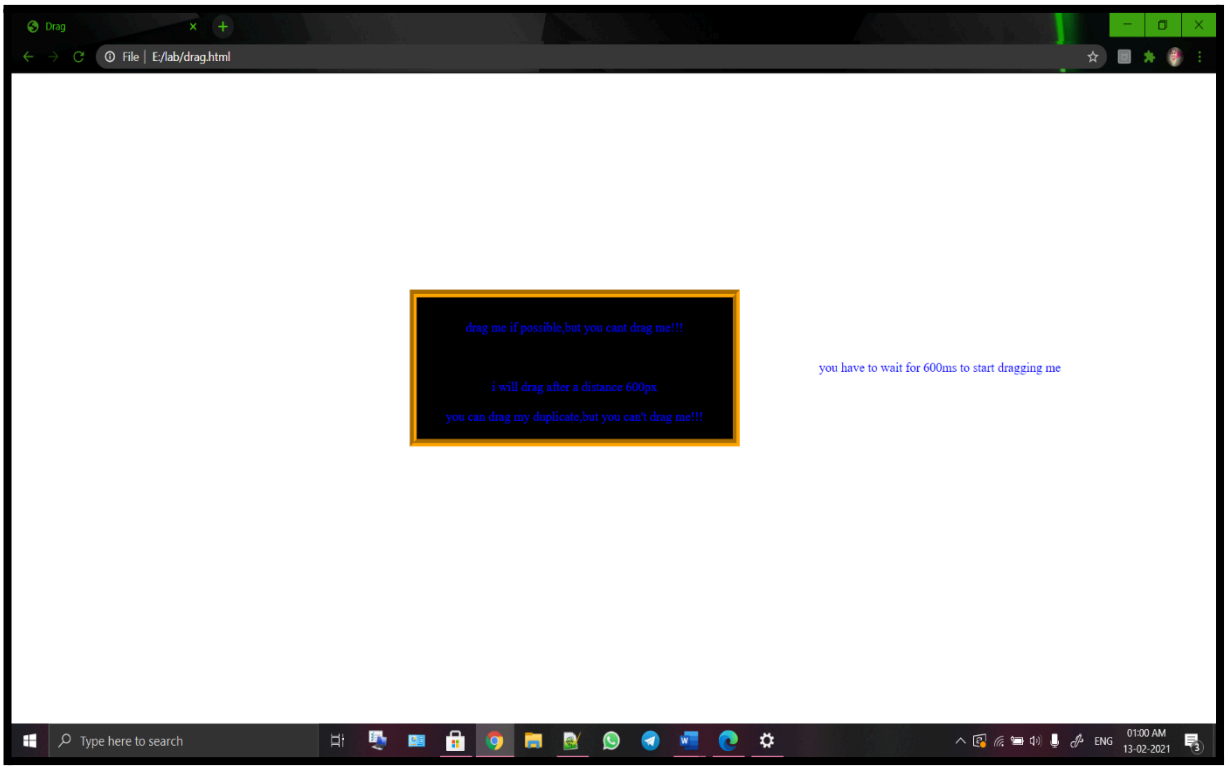
CODE : drag.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Drag</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>
<style>
.drag{
                        margin-left:500px;
                        margin-top:250px;
                        margin-right:600px;
                        border:9px groove orange;
                        padding-top:10px;
                        background-color:black;
                        text-align:center;
                        }
p{color:blue;
        }
</style>
</head>
<body>
<script>
```

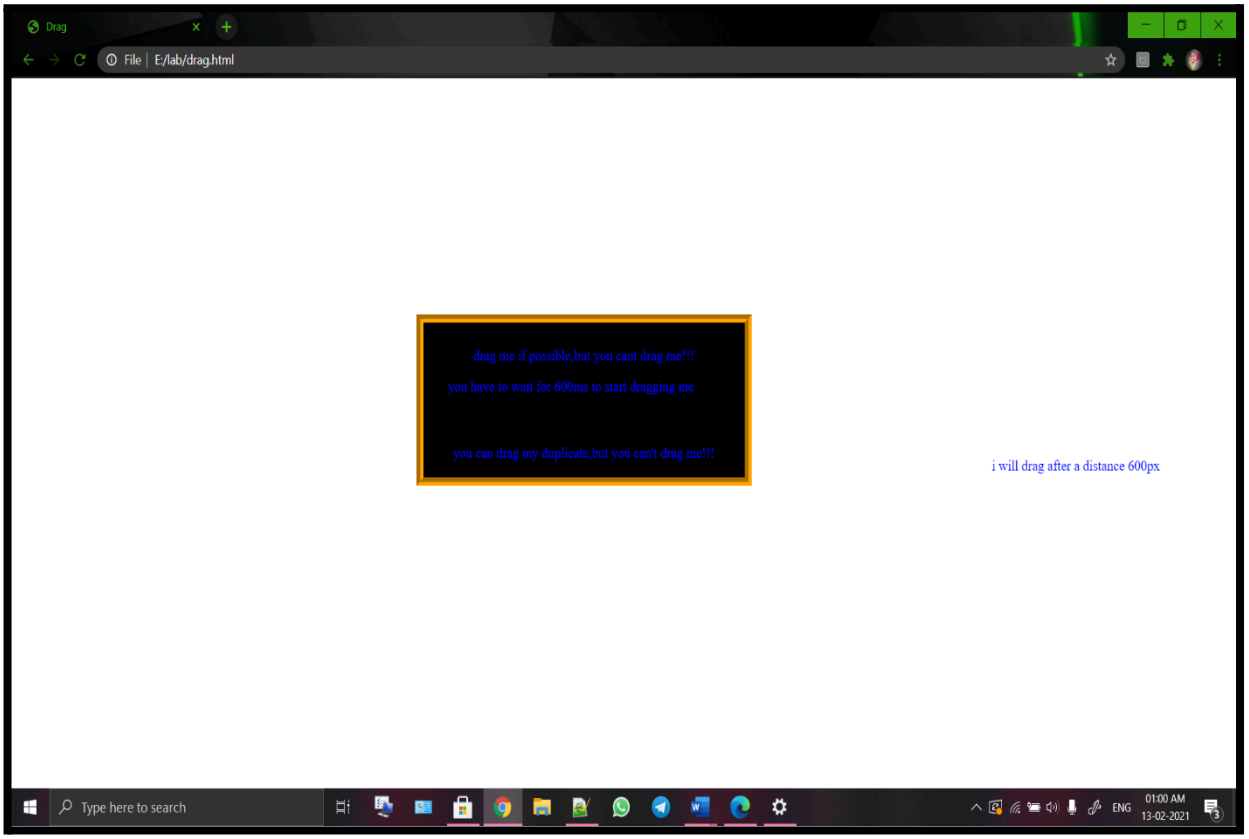
```
$(document).ready(function(){
$("#drag1").draggable({disabled:"true"});
$("#drag2").draggable({delay:600});
$("#drag3").draggable({distance:600});
$("#drag4").draggable({helper:clone});
});
</script>
<div class="drag">
<p id="drag1">drag me if  possible,but you cant drag me!!!</p>
<p id="drag2">you have to wait for 600ms to start dragging me </p>
<p id="drag3">i will drag after a distance 600px</p>
<p id="drag4">you can drag my duplicate,but you can't drag me!!!</p>
</div>
</body>
</html>
```

Output:


Drag
File | E:/lab/drag.html
drag me if possible,but you cant drag me!!!
you have to wait for 600ms to start dragging me
i will drag after a distance 600px
you can drag my duplicate,but you can't drag me!!!
Type here to search
ENG
01:00 AM
13-02-2021


Drag
File | E:/lab/drag.html
drag me if possible,but you cant drag me!!!
i will drag after a distance 600px
you can drag my duplicate,but you can't drag me!!!
you have to wait for 600ms to start dragging me
Type here to search
ENG
01:00 AM
13-02-2021

Topic	AIM :	S.No	Duration
LAB 10	**Write jQuery code to demonstrate three options addClass, disable and tolerance in the drop function of jQuery UI.**	10	150 mins



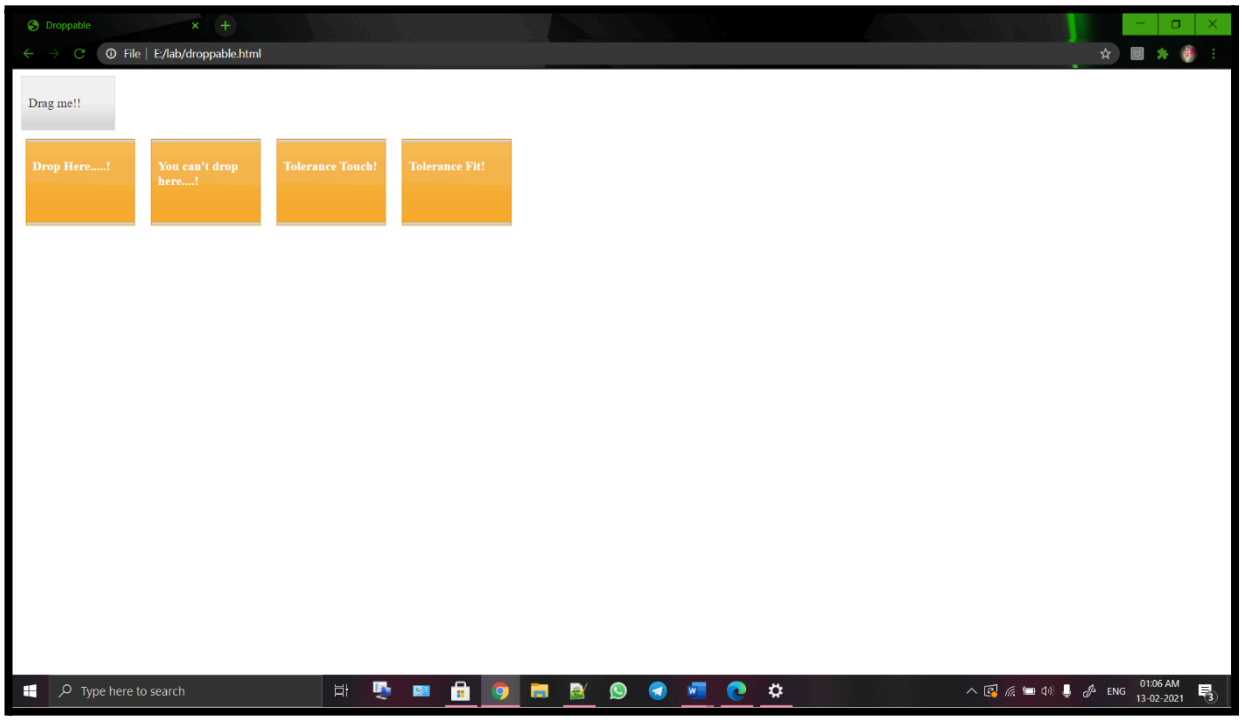
CODE : droppable.html:

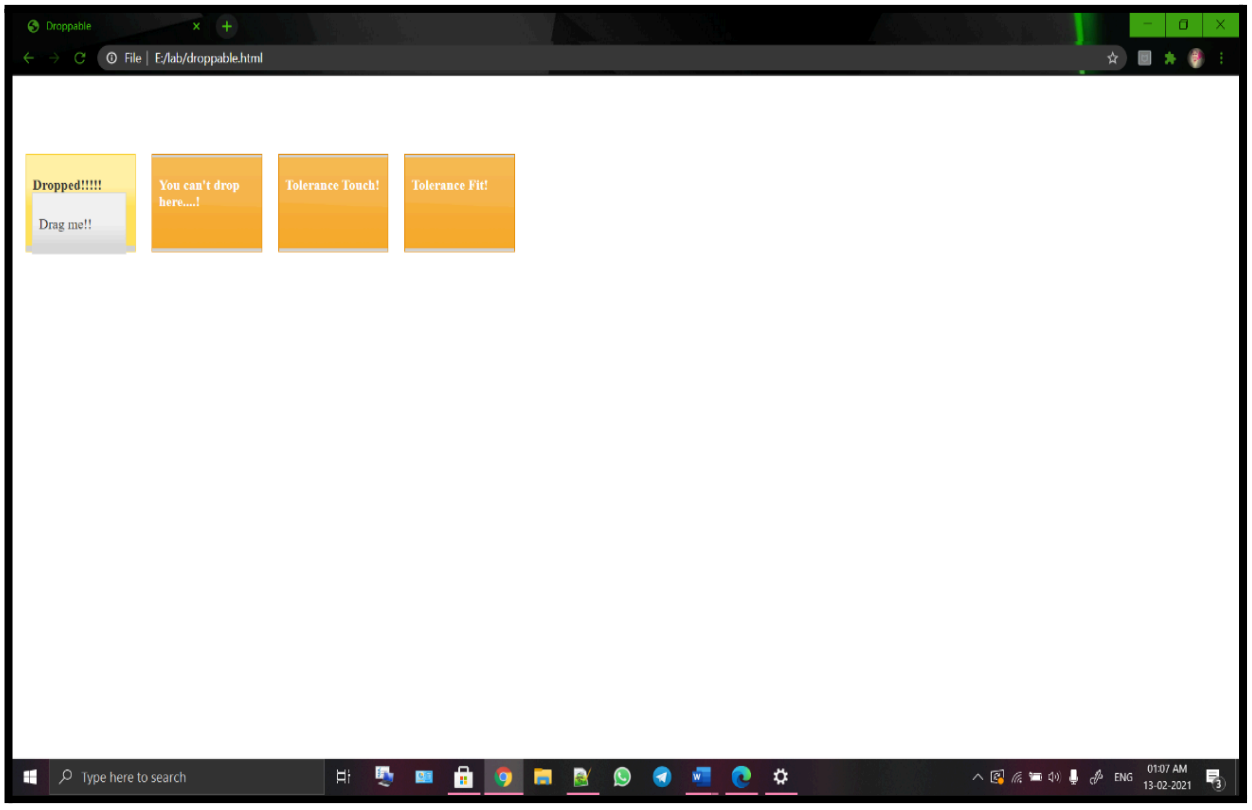
```
<!DOCTYPE html>
<html>
<head>
<title>Droppable</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>
```

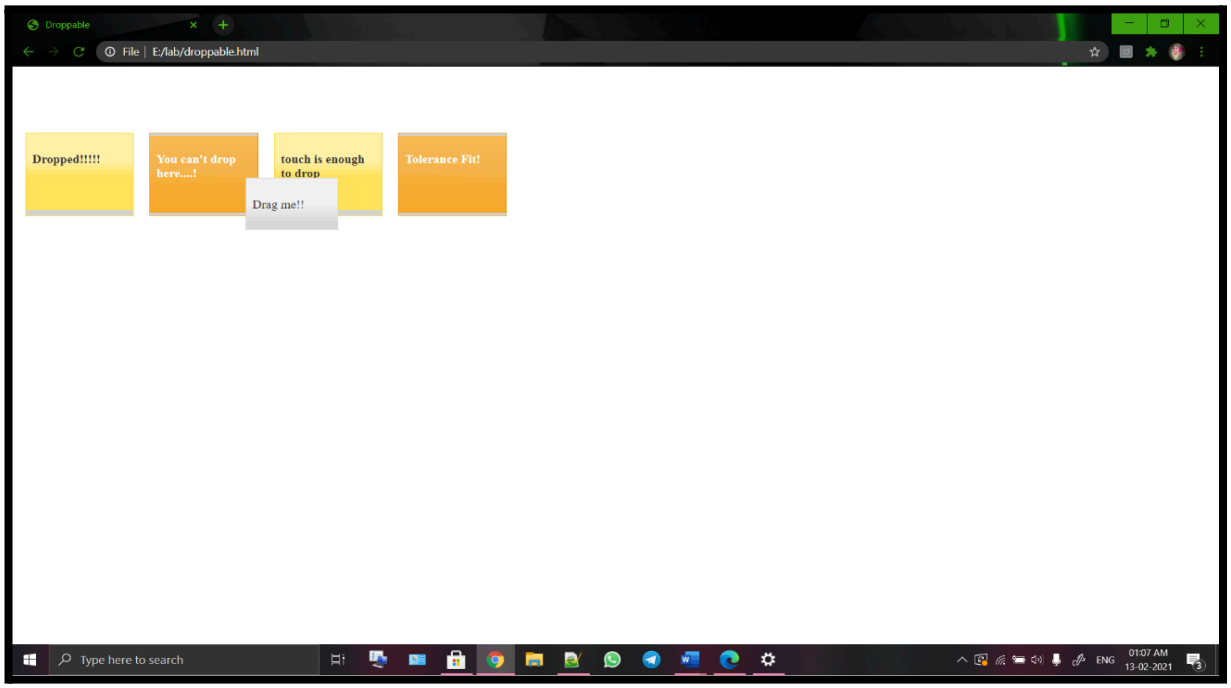
```
<style>
#draggable-1{background-color:lightgreen;
                                        width:100px;
                                        height:50px;
                                        padding:0.5em;
                                        margin:0px 5px;}
#droppable-1,#droppable-2,#droppable-3
{
background-color:lightgrey;
width:120px;
height:90px;
padding:0.5em;
float:left;
margin:10px;
}
#droppable-4
{
background-color:lightgrey;
width:120px;
height:90px;
padding:0.5em;
float:left;
margin:10px;
}
</style>
</head>
<body>
<script>
$(document).ready(function(){
$("#draggable-1").draggable();
$("#droppable-1").droppable({
```

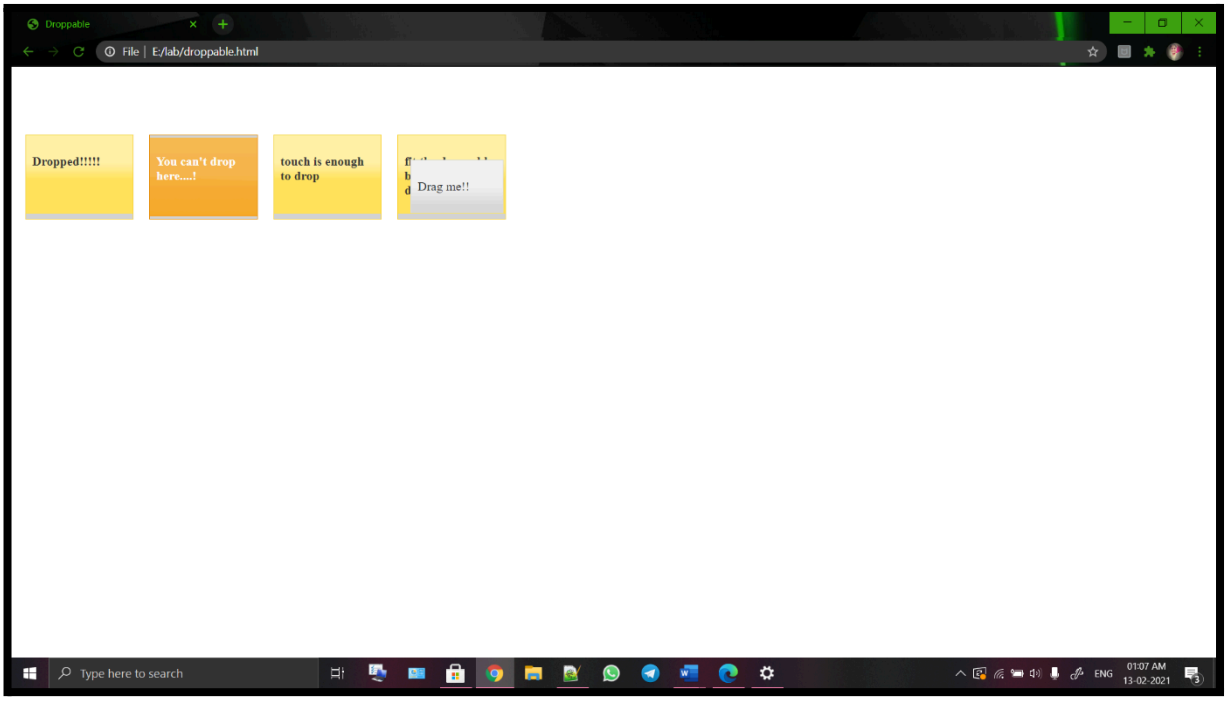
```
drop:function(event,ui){
$(this).addClass("ui-state-highlight").find("p").html("Dropped!!!!!");}
});
$("#droppable-2").droppable({
disabled:'true',
drop:function(event,ui){
$(this).addClass("ui-state-highlight").find("p").html("Dropped!!!");}
});
$("#droppable-3").droppable({
tolerance:'touch',
drop:function(event,ui){
$(this).addClass("ui-state-highlight").find("p").html("touch is enough to drop");}
});
$("#droppable-4").droppable({
tolerance:'fit',
drop:function(event,ui){
$(this).addClass("ui-state-highlight").find("p").html("fit the draggable box into me to drop");}
});
});
</script>
<div id="draggable-1" class="ui-widget-content"><p>Drag me!! </p></div>
<div id="droppable-1" class="ui-widget-header"><p>Drop Here.....!</p></div>
<div id="droppable-2" class="ui-widget-header"><p>You can't drop here....!</p></div>
<div id="droppable-3" class="ui-widget-header"><p>Tolerance Touch!</p></div>
<div id="droppable-4" class="ui-widget-header"><p>Tolerance Fit!</p></div>
</body>
</html>
```

Output:


Droppable
File | E:/lab/droppable.html
Drag me!!
Drop Here.....!
You can't drop here....!
Tolerance Touch!
Tolerance Fit!
Type here to search
ENG
01:06 AM
13-02-2021


Droppable
File | E:/lab/droppable.html
Dropped!!!!!
Drag me!!
You can't drop here....!
Tolerance Touch!
Tolerance Fit!
Type here to search
ENG
01:07 AM
13-02-2021


Droppable
File | E:/lab/droppable.html
Dropped!!!!!
You can't drop here....!
touch is enough to drop
Tolerance Fit!
Drag me!!
Type here to search
ENG
01:07 AM
13-02-2021


Droppable
File | E:/lab/droppable.html
Dropped!!!!!
You can't drop here....!
touch is enough to drop
Drag me!!
Type here to search
ENG
01:07 AM
13-02-2021

Topic	AIM :	S.No	Duration
LAB 11	**Write jQuery code to demonstrates the use of two options delay and distance of selectable () method.**	11	150 mins

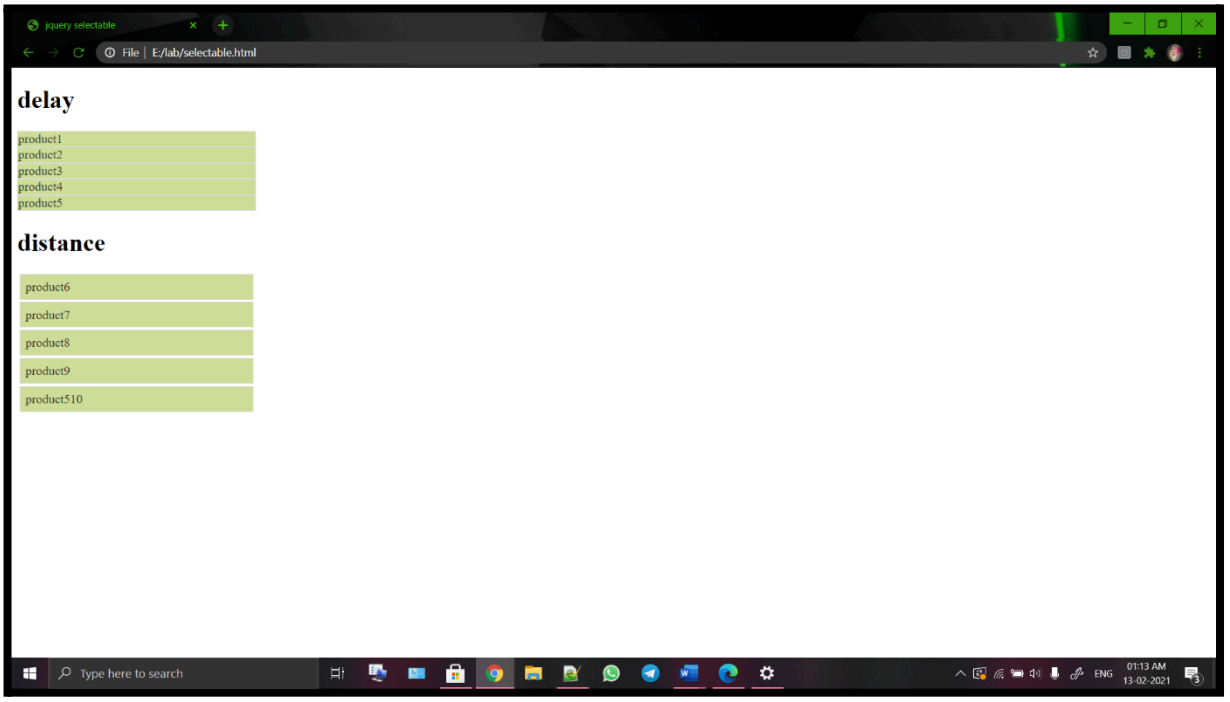
CODE : selectable.html:

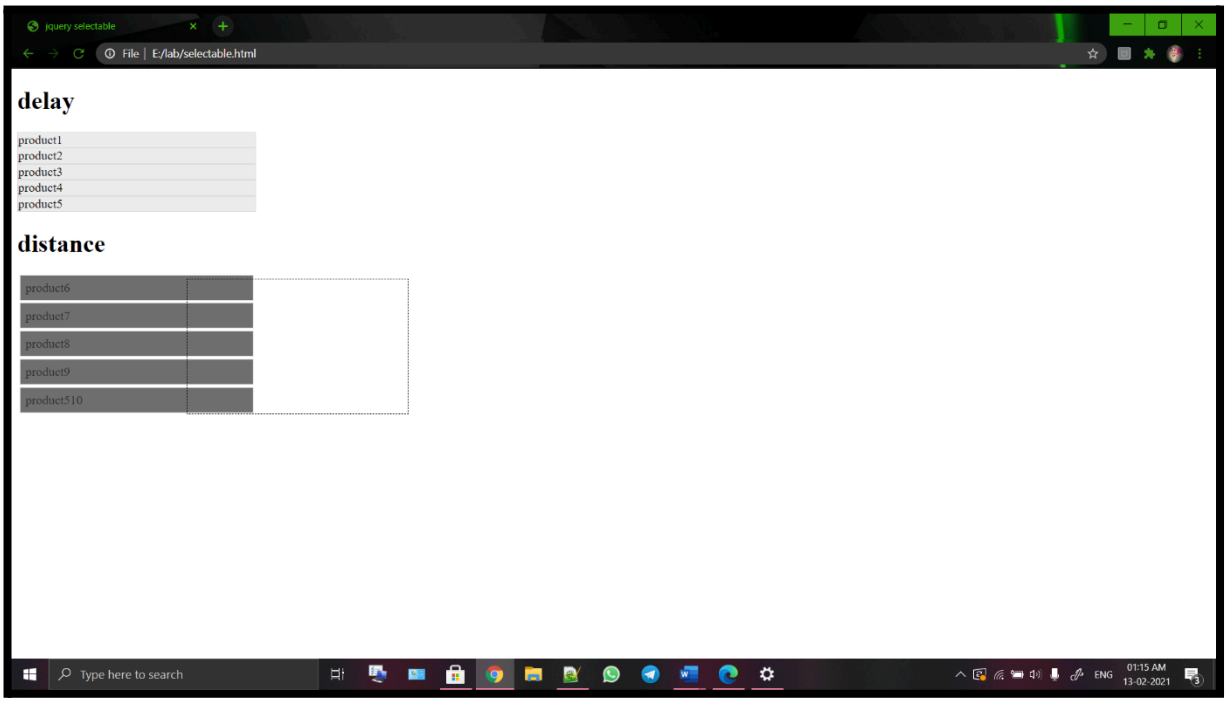
```
<!DOCTYPE html>
<html>
<head>
<title>jquery selectable</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>

<link href="jquery-ui.structure.css" rel="stylesheet">
<link href="jquery-ui.theme.css" rel="stylesheet">
<style>#selectable-1 .ui-selecting{
```

```
background-color:#707070;}
                #selectable-1 .ui-selected{

background-color:#EEEEEE;

color:#000000;}
                #selectable-1{list-style-type:none;
                        margin:0;
                        padding:0;
                        width:20%;}
                #selectable-1li{margin:3px;
                        padding:0.4em;
                        font-size:16px;
                        height:18px;}
                .ui-widget-content{
                        background:#cedc98;
                        border:1px solid #DDDDDD;
                        color:#333333;}
                #selectable-2 .ui-selecting{background:#707070;}
                #selectable-2 .ui-selected{background:#EEEEEE;color:#000000;}
                #selectable-2{list-style-type:none;
                        margin:0;
                        padding:0;
                        width:20%;}
                #selectable-2 li{margin:3px;
                        padding:0.4em;
                        font-size:16px;
                        height:18px;}
        .ui-widget-content{
                background:#cedc98;
                border:1px solid #DDDDDD;
```

```
color:#333333;}
</style>
<script>
$(document).ready(function(){
$("#selectable-1").selectable({delay:1000});
 $("#selectable-2").selectable({distance:100});
 });
</script>
</head>
<body>
<h1>delay</h1>
<ol id="selectable-1">
<li class="ui-widget-content">product1</li>
 <li class="ui-widget-content">product2</li>
 <li class="ui-widget-content">product3</li>
<li class="ui-widget-content">product4</li>
 <li class="ui-widget-content">product5</li>
</ol>
<h1>distance</h1>
<ol id="selectable-2">
<li class="ui-widget-content">product6</li>
<li class="ui-widget-content">product7</li>
<li class="ui-widget-content">product8</li>
<li class="ui-widget-content">product9</li>
 <li class="ui-widget-content">product510</li>

</ol>
</body>
</html>
```

Output:


jquery selectable
File | E:/lab/selectable.html
delay
product1
product2
product3
product4
product5
distance
product6
product7
product8
product9
product510
Type here to search
ENG
01:13 AM
13-02-2021


jquery selectable
File | E:/lab/selectable.html
delay
product1
product2
product3
product4
product5
distance
product6
product7
product8
product9
product510
Type here to search
ENG
01:15 AM
13-02-2021

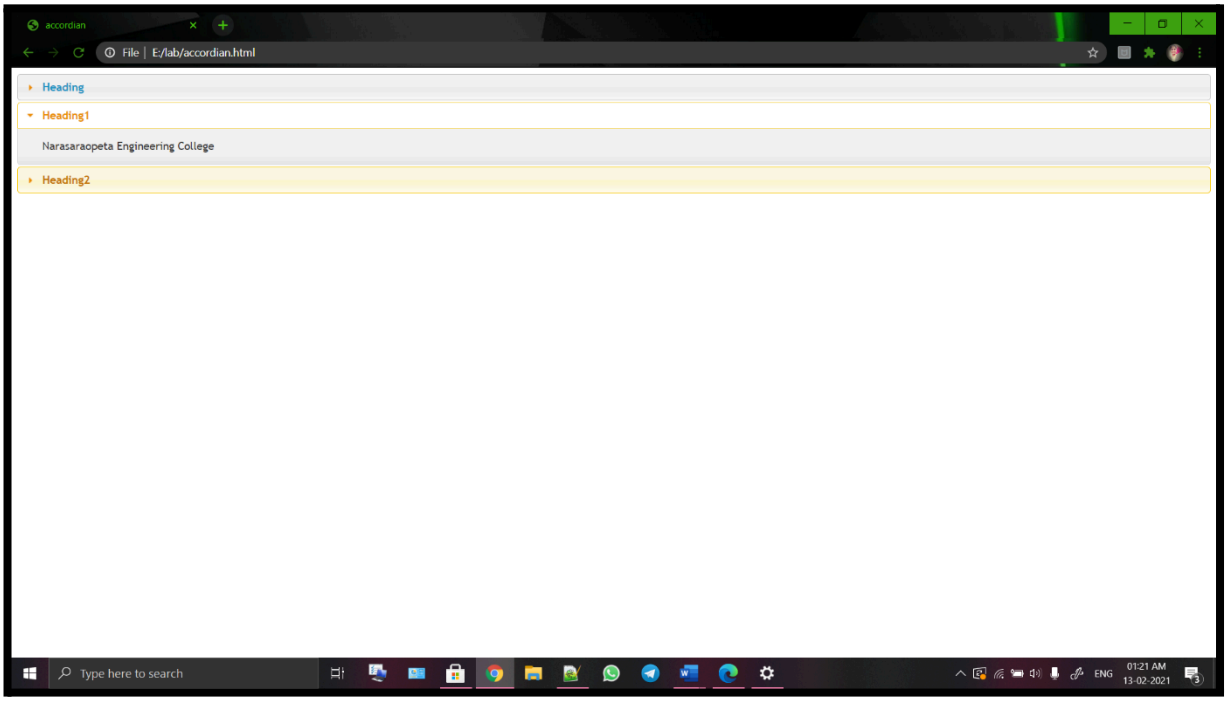
Topic	AIM :	S.No	Duration
LAB 12	**Write jQuery code to demonstrate Accordion and Date Picker.**	12A	120 mins

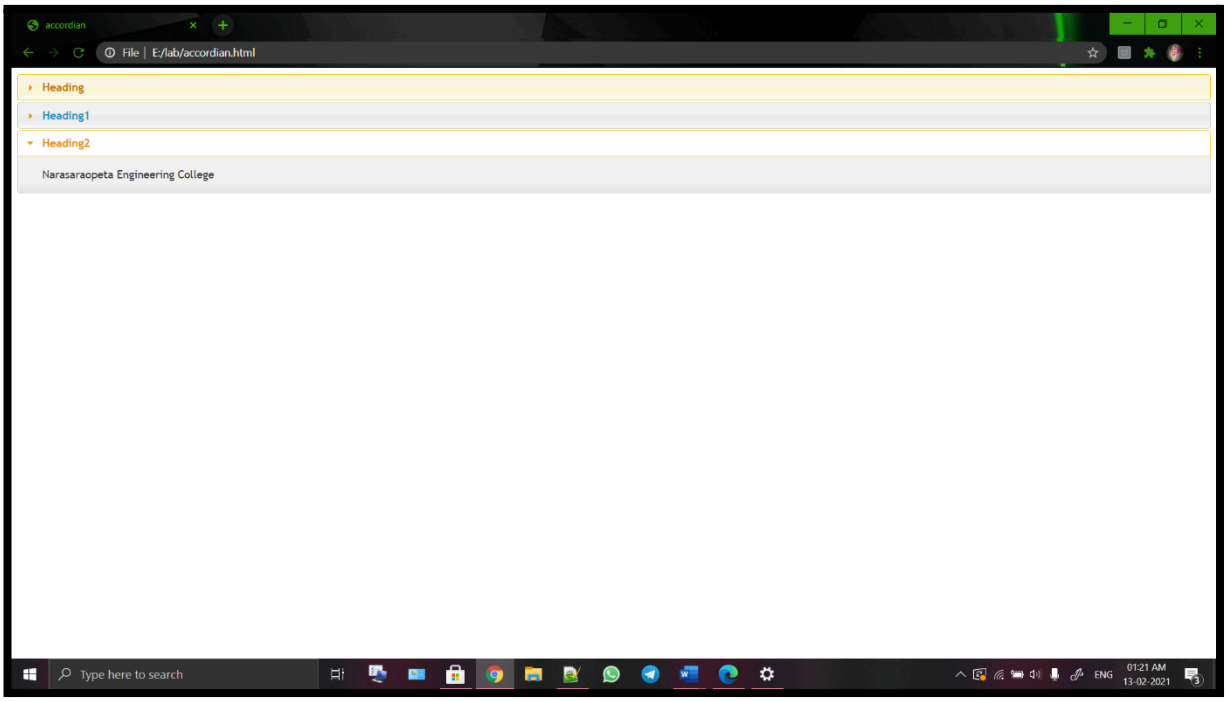
CODE : accordian.html:

```
<!DOCTYPE HTML>
<html charset="utf-8">
<head>
<title>accordian</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>
<script>
$(document).ready(function(){
$("#accord").accordion({
```

```
collapsible:true,
active:1,});
});
</script>
<style>
#accord{font-size:14px;}
</style>
</head>
<body>
<div id="accord">
<p>Heading</p>
<p></p>
<p>Heading1</p>
<p> Narasaraopeta Engineering College</p>
<p>Heading2</p>
<p>Narasaraopeta Engineering College</p>
</div>
</body>
</html>
```

Output:


accordian
File | E:/lab/accordian.html
Heading
Heading1
Narasaraopeta Engineering College
Heading2
Type here to search
ENG
01:21 AM
13-02-2021


accordian
File | E:/lab/accordian.html
Heading
Heading1
Heading2
Narasaraopeta Engineering College
Type here to search
ENG
01:21 AM
13-02-2021

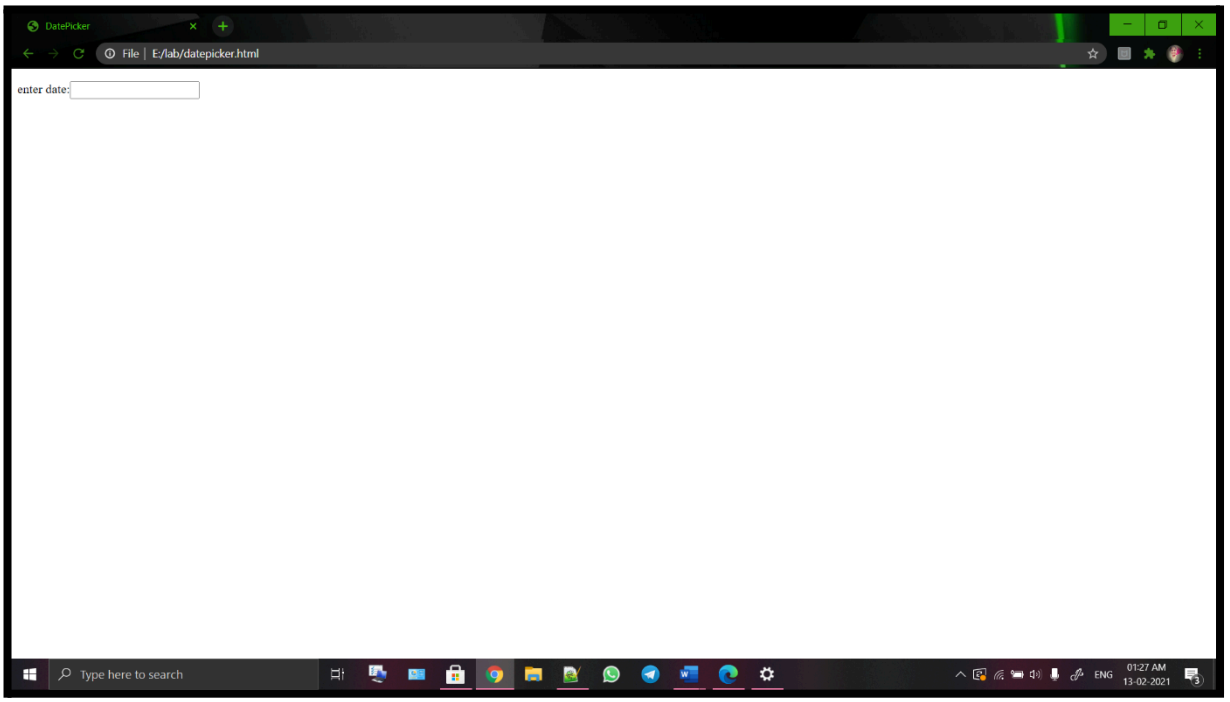
Topic	AIM :	S.No	Duration
LAB 12	**Write jQuery code to demonstrate Date Picker.**	12B	30 mins

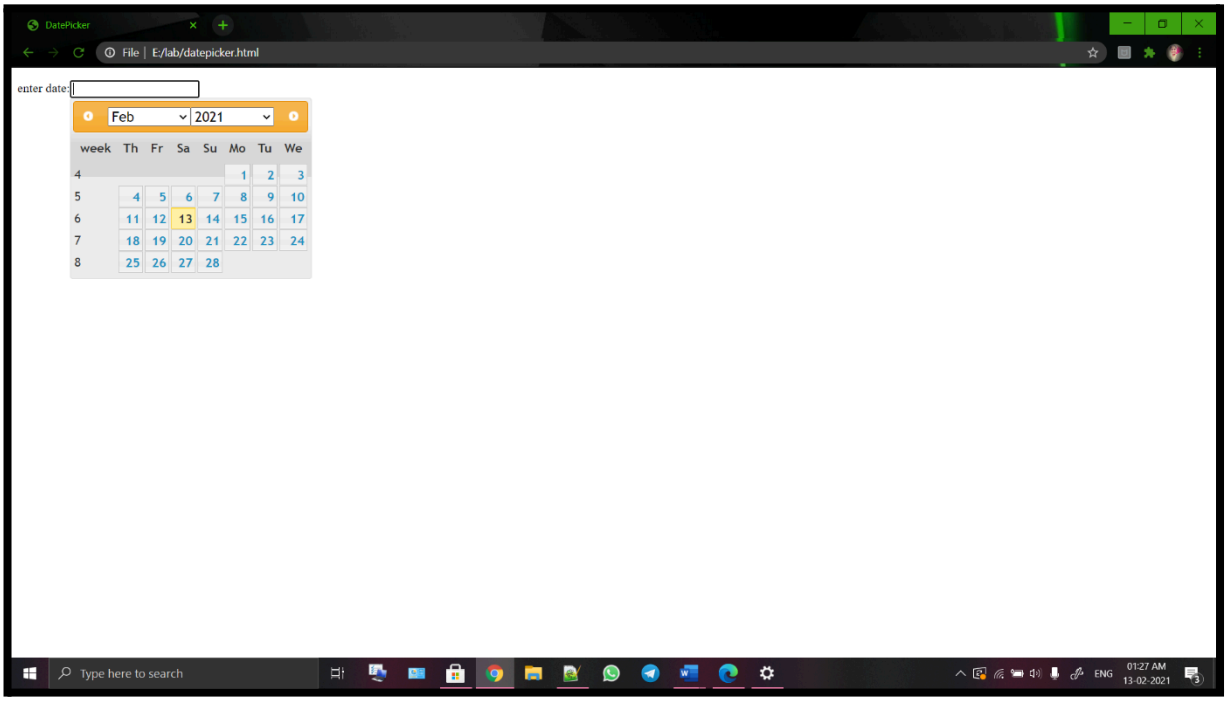
CODE : datepicker.html:

```
<!DOCTYPE html>
<html>
<head>
<title>DatePicker</title>
<link href=https://code.jquery.com/ui/1.10.4/themes/ui-lightness/jquery-ui.css rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script src="https://code.jquery.com/ui/1.10.4/jquery-ui.js"></script>
</head>
<body>
<script>
$(document).ready(function(){
$("#datepicker").datepicker(
                {dateFormat:"dd/mm/yy",
                changeMonth:"true",
```

```
                changeYear:"true",
                minDate:new Date(2013,1,1),
                maxDate:new Date(2030,12,31),
                firstDay:4,
                showWeek:"true",
                weekHeader:"week",
                }
        );
});
</script>
<p>enter date:<input type="text" id="datepicker"></p>  </body>  </html>
```

Output:





ADDITIONAL EXPERIMENTS SOLUTIONS

ADDITIONAL EXPERIMENT1

Aim:

Write an HTML page with Javascript that takes a number from one text field in the range 0-999 and display it in other text field in words.If the number is out of range ,it shold show "out of range" and if it is not a number ,it should show "not a number" message in the result box.

Source Code:

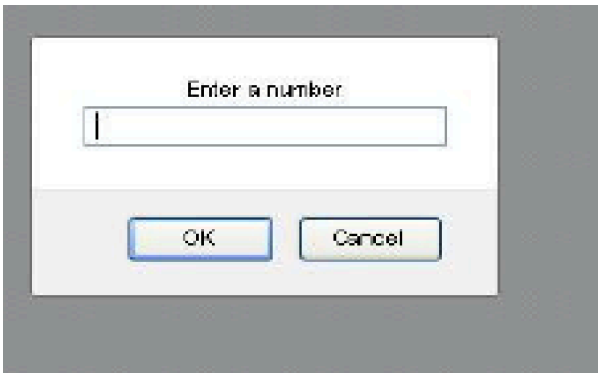
Conver.html

```
<script language="javascript">
function convert_number_to_words(number)
{
hyphen = '-';
conjunction = ' and ';
separator = ', ';
dictionary = {
0 : 'zero',
1 : 'one',
2 : 'two',
3 : 'three',
```

```
4 : 'four',
5 : 'five',
6 : 'six',
7 : 'seven',
8 : 'eight',
9 : 'nine',
10 : 'ten',
11 : 'eleven',
12 : 'twelve',
13 : 'thirteen',
14 : 'fourteen',
15 : 'fifteen',
16 : 'sixteen',
17 : 'seventeen',
18 : 'eighteen',
19 : 'nineteen',
20 : 'twenty',
30 : 'thirty',
40 : 'fourty',
50 : 'fifty',
60 : 'sixty',
70 : 'seventy',
80 : 'eighty',
90 : 'ninety',
100 : 'hundred',

};
if (number < 0 || number > 999)
{
alert("Enter a number range between 0 and 999");
return "";
}
switch (true)
{
case (number < 21):
string = dictionary[number];
break;
case (number < 100):
tens = parseInt(number / 10) * 10;
units = number % 10;
string = dictionary[tens];
if (units) {
string += hyphen + dictionary[units];
}
break;
case (number < 1000):
hundreds = parseInt(number / 100);
remainder = number % 100;
string = dictionary[hundreds] + ' ' + dictionary[100];
if (remainder) {
```

```
string += conjunction + convert_number_to_words(remainder);
}
break;
default:
break;
}
return string;
}
a=prompt("Enter a number");
num=parseInt(a);
document.write(convert_number_to_words(num));
</script>
```

Output:



ADDITIONAL EXPERIMENT2

Aim:

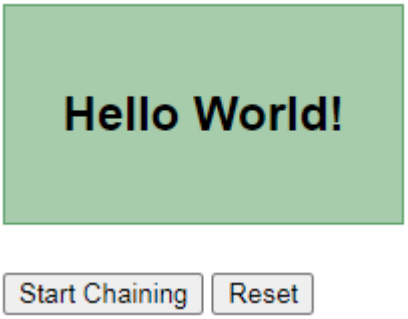
Write jQuery code to demonstrate method chaining?

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Example of jQuery Method Chaining</title>
<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<style>
/* Some custom styles to beautify this example */
p {
   width: 200px;
        padding: 40px 0;
        font: bold 24px sans-serif;
```

```
        text-align: center;
    background: #aaccaa;
    border: 1px solid #63a063;
    box-sizing: border-box;
}
</style>
<script>
$(document).ready(function(){
    $(".start").click(function(){
        $("p").animate({width: "100%"}).animate({fontSize: "46px"}).animate({borderWidth: 30});
    });
    $(".reset").click(function(){
        $("p").removeAttr("style");
    });
});
</script>
</head>
<body>
    <p>Hello World!</p>
    <button type="button" class="start">Start Chaining</button>
    <button type="button" class="reset">Reset</button>
</body>
</html>
```

Output:



ADDITIONAL EXPERIMENT3

Aim:

Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

Source Code:

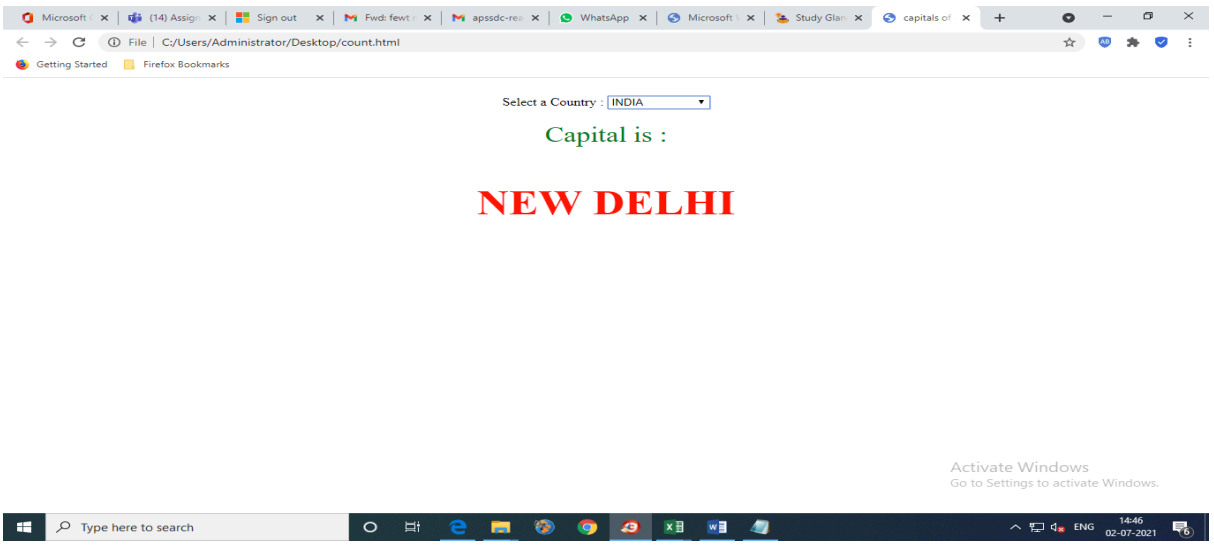
ADDITIONALEXP3.HTML

```
<html>
<head>
<title>capitals of countries</title>
<style>
p{
color:red;
font-weight:bold;
font-size:50;
}
</style>
<script language="javascript">
function capital()
{
var cunt=document.forms["frm1"].country.value;
var capital=" Please select any country ";
if( cunt=="india")
{
capital="NEW DELHI";
```

```
}
if( cunt=="china")
{
capital="BEIJING";
}
if( cunt=="pakistan")
{
capital="ISLAMABAD";
}
if( cunt=="bangladesh")
{
capital="DHAKA";
}
if( cunt=="japan")
{
capital="TOKYO";
}

if( cunt=="select")
{
capital="Please select any country";
}
document.getElementById("capt").innerHTML=capital;
}
</script>
</head>
<body>
<form name="frm1">
<br/>
<center>
Select a Country : <select name="country" onchange="capital()">
<option value="select">--SELECT--</option>
```

```
<option value="india">INDIA</option>
<option value="china">CHINA</option>
<option value="pakistan">PAKISTAN</option>
<option value="bangladesh">BANGLADESH</option>
<option value="japan">JAPAN</option>
</select>
<br/>
<br/>
<font color="green" size="6">Capital is :</font> <p id="capt"></p>
</center>
</form>
</body>
</html>
```

OUTPUT



ADDITIONAL EXPERIMENT4

Aim:

Write an HTML page including JavaScript that takes a given set of integer numbers and shows them after sorting in descending order.

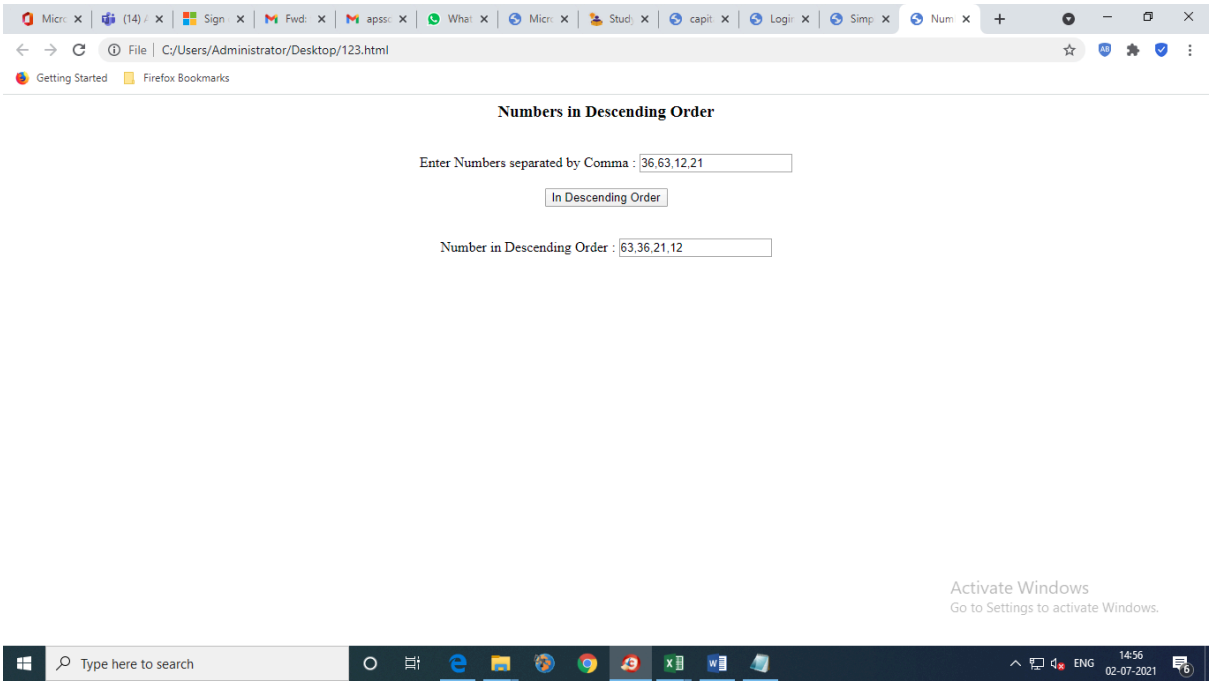
Source Code:

ADDITIONALEXP4.HTML

```
<html>
<head>
<title>Number in Descending Order</title>
<script language="javascript">
function ndesc()
{
var num_array=new Array();
var num=document.forms["frm1"].num.value;
document.forms["frm1"].desc.value="";
var nums = num.split(',');
var len=num.split(',').length;
for(var i=0;i<len;i++)
{
num_array.push(nums[i]);
}
function sortN(a,b)
{
return b - a;
}
document.forms["frm1"].desc.value= num_array.sort(sortN);
}
</script>
</head>
<body>
<form name="frm1">
<center>
<h3> Numbers in Descending Order</h3>
</center>
<br/>
<center>Enter  Numbers separated by Comma : <input type="text" name="num"</input><br/></center>
<br/>
<center>
```

```
<input type="button"  name="inwords" value="In Descending Order" onclick="ndesc()"></input>
</center>
<br/><br/>
<center>Number in Descending Order : <input type="text" name="desc"</input></center>
<br/>
</form>
</body>
</html>
```

OUTPUT



ADDITIONAL EXPERIMENT5

Color Input Type :

The color input type allows the user to select a color from a color picker and returns the color value in hexadecimal format (#rrggbb). If you don't specify a value, the default is #000000, which is black.

format:

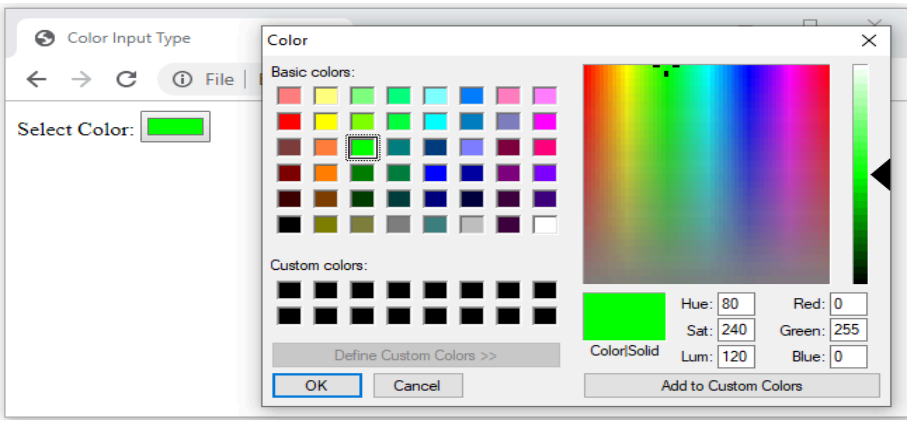
```
<input type="color" value="#00ff00"></input>
```

Example : "*colortype.html*"

```
<!DOCTYPE html>
<html>
<head>
<title>Color Input Type</title>
</head>
<body>
<form>
<label>Select Color:</label>
<input type="color" value="#00ff00" id="mycolor"></input>
```

```
</form>

</body>

</html>
```

OUTPUT



VIVA QUESTIONS AND ANSWERS

4) What is formatting in HTML?
The HTML formatting is a process of format the text for a better look and feel. It uses different tags to make text bold, italicized, underlined.

5) How to create a hyperlink in HTML?
The HTML provides an anchor tag to create a hyperlink that links one page to another page. These tags can appear in any of the following ways:

- Unvisited link - It is displayed, underlined and blue.
- Visited link - It is displayed, underlined and purple.
- Active link - It is displayed, underlined and red.

6) What are some common lists that are used when designing a page?
There are many common lists which are used to design a page. You can choose any or a combination of the following list types:

- Ordered list - The ordered list displays elements in numbered format. It is represented by <ol> tag.
- Unordered list - The unordered list displays elements in bulleted format. It is represented by <ul> tag.
- Definition list - The definition list displays elements in definition form like in dictionary. The <dl>, <dt> and <dd> tags are used to define description list.

7) What is the difference between HTML elements and tags?
HTML elements communicate to the browser to render text. When the elements are enclosed by brackets <>, they form HTML tags. Most of the time, tags come in a pair and surround content.

8) How to insert a copyright symbol on a browser page?
You can insert a copyright symbol by using © or © in an HTML file.

9) How do you keep list elements straight in an HTML file?
You can keep the list elements straight by using indents.

10) How to create a nested webpage in HTML?
The HTML iframe tag is used to display a nested webpage. In other words, it represents a webpage within a webpage. The HTML <iframe> tag defines an inline frame

11) What is CSS?
CSS stands for Cascading Style Sheet. It is a popular styling language which is used with HTML to design websites. It can also be used with any XML documents including plain XML, SVG, and XUL

12) What is the origin of CSS?
SGML (Standard Generalized Markup Language) is the origin of CSS. It is a language that defines markup languages.

13) What are the different variations of CSS?
Following are the different variations of CSS:

- CSS1
- CSS2
- CSS2.1
- CSS3
- CSS4

14) How can you integrate CSS on a web page?
There are three methods to integrate CSS on web pages.

1. Inline method - It is used to insert style sheets in HTML document
2. Embedded/Internal method - It is used to add a unique style to a single document
3. Linked/Imported/External method - It is used when you want to make changes on multiple pages.

15) What are the advantages of CSS?

- Bandwidth
- Site-wide consistency
- Page reformatting
- Accessibility
- Content separated from presentation

16) What are the limitations of CSS?

- Ascending by selectors is not possible
- Limitations of vertical control
- No expressions
- No column declaration

- Pseudo-class not controlled by dynamic behavior
- Rules, styles, targeting specific text not possible

17) What are the CSS frameworks?
CSS frameworks are the preplanned libraries which make easy and more standard compliant web page styling. The frequently used CSS frameworks are: -

- Bootstrap
- Foundation
- Semantic UI
- Gumby
- Ulkit

18) Why background and color are the separate properties if they should always be set together?
There are two reasons behind this:

- It enhances the legibility of style sheets. The background property is a complex property in CSS, and if it is combined with color, the complexity will further increase.
- Color is an inherited property while the background is not. So this can make confusion further.

19) What is Embedded Style Sheet?
An Embedded style sheet is a CSS style specification method used with HTML. You can embed the entire stylesheet in an HTML document by using the STYLE element.

20) What are the advantages of Embedded Style Sheets?

- You can create classes for use on multiple tag types in the document.
- You can use selector and grouping methods to apply styles in complex situations.
- No extra download is required to import the information.

21) What is JavaScript?
JavaScript is *a scripting language*. It is different from Java language. It is object-based, lightweight, cross-platform translated language. It is widely used for client-side validation. The JavaScript Translator (embedded in the browser) is responsible for translating the JavaScript code for the web browser.

22) List some features of JavaScript.
Some of the features of JavaScript are:

- Lightweight
- Interpreted programming language
- Good for the applications which are network-centric
- Complementary to Java
- Complementary to HTML
- Open source

23) List some of the advantages of JavaScript.
Some of the advantages of JavaScript are:

- Server interaction is less
- Feedback to the visitors is immediate

- Interactivity is high
- Interfaces are richer

24) List some of the disadvantages of JavaScript.
Some of the disadvantages of JavaScript are:

- No support for multithreading
- No support for multiprocessing
- Reading and writing of files is not allowed
- No support for networking applications.

25) Define a named function in JavaScript.
The function which has named at the time of definition is called a named function

26) Name the types of functions
The types of function are:

- Named - These type of functions contains name at the time of definition.
- Anonymous - These type of functions doesn't contain any name. They are declared dynamically at runtime.

27) Define anonymous function
It is a function that has no name. These functions are declared dynamically at runtime using the function operator instead of the function declaration. The function operator is more flexible than a function declaration. It can be easily used in the place of an expression.

28) Can an anonymous function be assigned to a variable?
Yes, you can assign an anonymous function to a variable.

29) In JavaScript what is an argument object?
The variables of JavaScript represent the arguments that are passed to a function.

30) Define closure.
In JavaScript, we need closures when a variable which is defined outside the scope in reference is accessed from some inner scope.

31) What is jQuery?
jQuery is a fast, lightweight, feature-rich client-side JavaScript library. It is cross-platform and supports different types of browsers. It has provided a much-needed boost to JavaScript. Before jQuery, JavaScript codes were lengthy and bigger, even for smaller functions. It makes a website more interactive and attractive.

32) Is jQuery a programming language?
jQuery is not a programming language but a well-written JavaScript code. It is used to traverse documents, event handling, Ajax interaction, and Animation.

33) What is the difference between JavaScript and jQuery?
The simple difference is that JavaScript is a language while jQuery is a built-in library built for JavaScript. jQuery simplifies the use of JavaScript language.

34) Is jQuery replacement of JavaScript?
No, jQuery is not the replacement of JavaScript. jQuery is written on the top of JavaScript, and it is a different library. jQuery is a lightweight JavaScript library which is used to interact with JavaScript and HTML.

35) Why do we use jQuery?

- It is very easy to learn and use.
- It is used to develop browser compatible web applications.
- It improves the performance of an application.
- It is very fast and extensible.
- It facilitates you to write minimal lines of codes for UI related functions.
- It provides cross-browser support.

36) What is $() in jQuery library?
The $() function is an alias of jQuery() function. It is used to wrap any object into jQuery object which later facilitates you to call the various method defined jQuery object. You can pass a selector string to $() function, and it returns a jQuery object which contains an array of all matched DOM elements.

37) What are the effects methods used in jQuery?
These are some effects methods used in jQuery:

- show() - It displays or shows the selected elements.
- hide() - It hides the matched or selected elements.

38) What is the use of toggle() method in JQuery?
The jQuery toggle() is a particular type of method which is used to toggle between the hide() and show() method. It shows the hidden elements and hides the shown element.

39) What is the purpose of fadeToggle() method in JQuery?
The jQuery fadeToggle() method is used to toggle between the fadeIn() and fadeOut() methods. If the elements are faded in, it makes them faded out, and if they are faded out, it makes them faded in.

40) What is the use of delay() method in JQuery?
The jQuery delay() method is used to delay the execution of functions in the queue. It is the best method to make a delay between the queued jQuery effects. The jQUery delay () method sets a timer to delay the execution of the next item in the queue.

41) Is it possible that jQuery HTML work for both HTML and XML document?
No, jQuery HTML only works for HTML document. It doesn't work for XML documents.

42) What is the use of html() method in JQuery?
The jQuery html() method is used to change the entire content of the selected elements. It replaces the selected element content with new contents.

43) What is the use of css() method in JQuery?
The jQuery CSS() method is used to get (return)or set style properties or values for selected elements. It facilitates you to get one or more style properties.

44) Is jQuery library used for server scripting or client scripting?
It is a library for client-side Scripting.

45) Is jQuery a W3C standard?
No, jQuery is not a W3C standard.

46) What is the starting point of code execution in jQuery?
$(document).ready() function is the starting point of jQuery code. It is executed when DOM is loaded.

47) What is the basic requirement to start with the jQuery?
You need refer to its library to start with jQuery. You can download the latest version of jQuery from jQuery.com.

48) Can you use any other name in place of $ (dollar sign) in jQuery?
Yes, instead of $ (dollar sign) we can use jQuery as a function name.

49) Can you use multiple document.ready() function on the same page?
Yes. You can use any number of document.ready() function on the same page.

50) What is the difference between find and children methods?
Find method is used to find all levels down the DOM tree while children method is used to find single level down the DOM tree.

REFERENCES

REFERENCE BOOKS:

1. Robert W Sebesta, “Programming the World Wide Web”, 7ed, Pearson, 2012
2. Paul S Wang, Sanda S Katila, “An Introduction to Web Design, Programming”, Cengage, 2003.

ADDITIONAL RESOURCES:

1. https://www.w3schools.com/
2. nptel.ac.in/courses/106105084/13
3. https://www.coursera.org

4. https://jquery.com/
5. https://jqueryui.com/