COMPUTER SCIENCE

INVESTIGATORY PROJECT

PROJECT PREPARED BY:

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ROLL NO:........

&

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ROLL NO:.........CLASS : XII-A

SCHOOL: KENDRIYA VIDYALAYA AMBERNATH

CERTIFICATE

KENDRIYA VIDYALAYA AMBERNATH
YEAR:2019-20

This is to certify that Project is successfully completed by AYUSH .M. SAXENA roll no:……... and NITISH MAURYA of roll no.............. of Class : XII Division: A for the academic year 2019-20 in the School Computer lab.

Head Teacher
Signature:

External
Examiner

Internal Examiner

Date: / / 20

Department of COMPUTER SCI.

ACKNOWLEDGEMENT:

WE **AYUSH.M.SAXENA** of roll no..... and **NITISH MAURYA** of

roll no...... of class **XII-A** would like to express our sincere

gratitude to our computer science teacher MS. **APARNA**

DHIRDE,PGT COMPUTER SCIENCE, for her vital support,

guidance and encouragement – without which this project would

not have come forth.

I would also like to express my gratitude to my school **KENDRIYA**

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laboratory.

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BRIEF OVERVIEW OF PROJECT

Career development, an aspect of human development, is the process through which an individual's work identity emerges. Although it will occur on its own as you mature, you may benefit from getting assistance as you navigate through this process, which can be quite confusing at times.

Course matchup is an innovative program specifically for young generation to find jobs easily according to their interest.

This program runs on Python IDLE and the data is stored on MYSQL server. This project is very useful for career options searching. It easily searches career options on different criteria.

Software and Hardware requirement

#SOFTWARE SPECIFICATION: -

Operating system: Windows 10/8/7

Platform   :   Python IDLE 3.8

Database   :   MySQL

Languages   :   Python

#HARDWARE SPECIFICATION: -

Processor: Dual core or above

Hard Disk: 40 GB

Ram   : 1024MB

ADVANTAGES

OF PROJECT

#Benefits of this program are:

>>>It helps to Determine Strengths and Weaknesses of a candidate.

>>>Goal Setting for better employment Results.

>>>Identifying Choices in Careers according to student interest.

>>>It gives us Educational Support and Guidance.

>>>Job Search Support.

#SOURCE CODE IN PYTHON:-

```python
import os
import platform
import mysql.connector
import pandas as pd
mydb=mysql.connector.connect(host="localhost",\
                             user="root",\
                             passwd="root",\
                             database="COURSE_MATCH")
mycursor=mydb.cursor()
def course_Insert():
    L=[]
    c_id=int(input("Enter the course id :"))
    L.append(c_id)
    stream=input("Enter the Stream Name:")
    L.append(stream)
    C_name=(input("Enter available opportunities or courses in this stream :"))
    L.append(C_name)
    course=(L)
    sql="insert into course_details (c_id, stream, c_name) values (%s,%s,%s)"
    mycursor.execute(sql,course)
    mydb.commit()
def cView():
    print("Select the search criteria :")
    print("1. c_id")
    print("2. Stream")
    print("3. All")
    ch=int(input("Enter the choice :"))
    if ch==1:
        s=int(input("c_id :"))
        c=(s,)
        sql="select * from course_details where c_id=%s"
        mycursor.execute(sql,c)
    elif ch==2:
        s=input("Enter stream Name :")
        n=(s,)
        sql="select * from course_details where c_name=%s"
        mycursor.execute(sql,n)
    elif ch==3:
        sql="select * from course_details"
        mycursor.execute(sql)
    res=mycursor.fetchall()
    print("The course details are as follows :")
    print("(course_id, Stream_Name,Course_opportunities)")
```
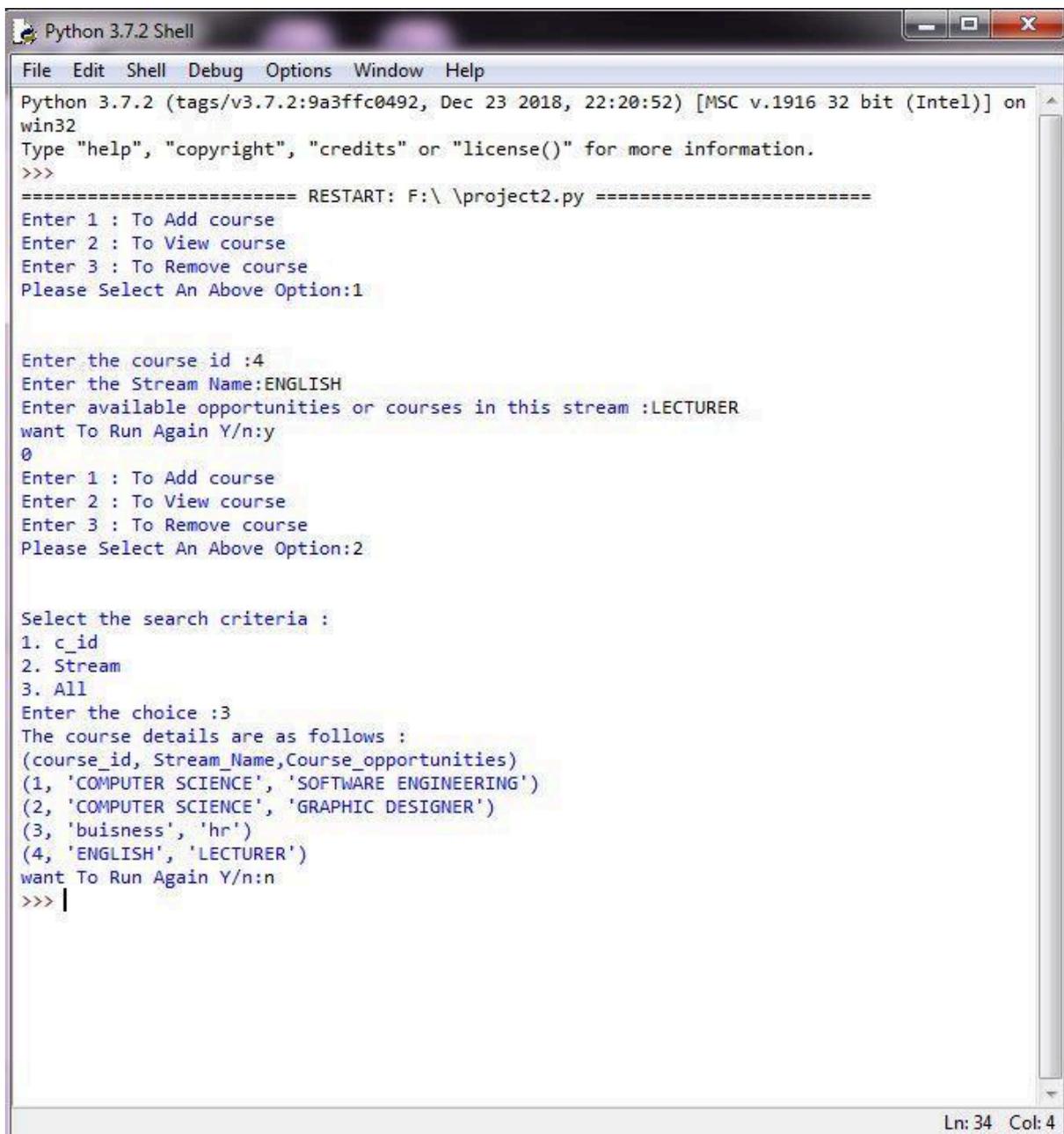
```python
    for x in res:
        print(x)
def removecourse():
        cid=int(input("Enter the course_id of the course to be deleted :"))
        ci=(cid,)
        sql="Delete from course_details where c_id=%s"
        mycursor.execute(sql,ci)
        sql="Delete from course_details where c_id=%s"
        mycursor.execute(sql,ci)
        mydb.commit()
def MenuSet(): #Function For The course match
        print("Enter 1 : To Add course")
        print("Enter 2 : To View course")
        print("Enter 3 : To Remove course")
        try:
            userInput = int(input("Please Select An Above Option:")) #Will Take Input From User
        except ValueError:
            exit("\nHy! That's Not A Number") #Error Message
        else:
            print("\n") #Print New Line
            if(userInput == 1):
                course_Insert()
            elif (userInput==2):
                cView()
            elif (userInput==3):
                removecourse()
            else:
                print("Enter correct choice. . .")
MenuSet()
def runAgain():
    runAgn = input("want To Run Again Y/n:")
    while(runAgn.lower() == "y"):
        if(platform.system() == "Windows"):
            print(os.system("cls"))
        else:
            print(os.system("clear"))
        MenuSet()
        runAgn = input("want To Run Again Y/n:")
runAgain()
```
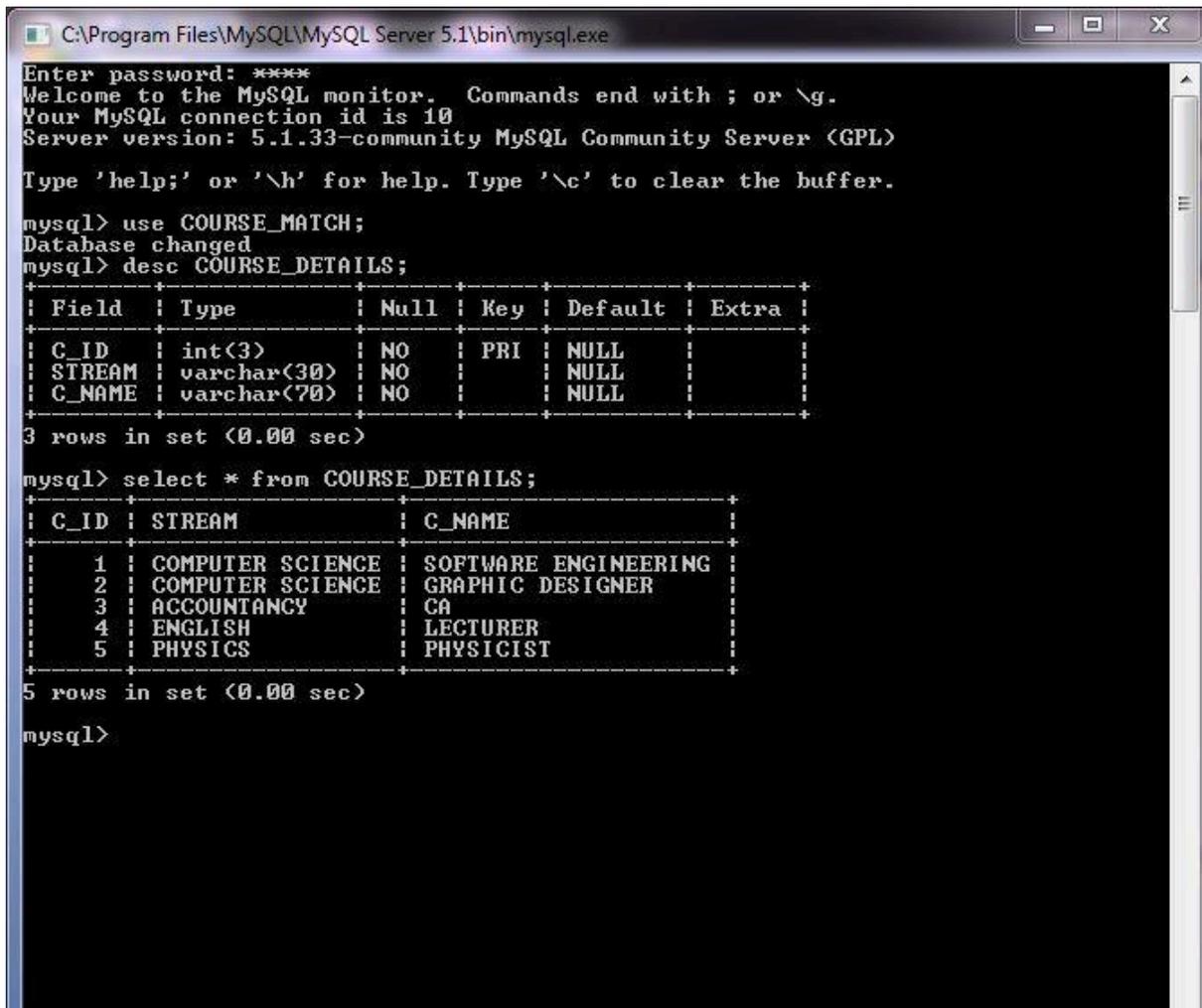
#OUTPUT SCREEN:-


```
Python 3.7.2 Shell

File  Edit  Shell  Debug  Options  Window  Help

Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on
win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========================= RESTART: F:\ \project2.py =========================
Enter 1 : To Add course
Enter 2 : To View course
Enter 3 : To Remove course
Please Select An Above Option:1


Enter the course id :4
Enter the Stream Name:ENGLISH
Enter available opportunities or courses in this stream :LECTURER
want To Run Again Y/n:y
0
Enter 1 : To Add course
Enter 2 : To View course
Enter 3 : To Remove course
Please Select An Above Option:2


Select the search criteria :
1. c_id
2. Stream
3. All
Enter the choice :3
The course details are as follows :
(course_id, Stream_Name,Course_opportunities)
(1, 'COMPUTER SCIENCE', 'SOFTWARE ENGINEERING')
(2, 'COMPUTER SCIENCE', 'GRAPHIC DESIGNER')
(3, 'buisness', 'hr')
(4, 'ENGLISH', 'LECTURER')
want To Run Again Y/n:n
>>> |

                                                                          Ln: 34  Col: 4
```

#MYSQL TABLE :-


```
C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe

Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.1.33-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use COURSE_MATCH;
Database changed
mysql> desc COURSE_DETAILS;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| C_ID   | int(3)      | NO   | PRI | NULL    |       |
| STREAM | varchar(30) | NO   |     | NULL    |       |
| C_NAME | varchar(70) | NO   |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> select * from COURSE_DETAILS;
+------+------------------+----------------------+
| C_ID | STREAM           | C_NAME               |
+------+------------------+----------------------+
|    1 | COMPUTER SCIENCE | SOFTWARE ENGINEERING |
|    2 | COMPUTER SCIENCE | GRAPHIC DESIGNER     |
|    3 | ACCOUNTANCY      | CA                   |
|    4 | ENGLISH          | LECTURER             |
|    5 | PHYSICS          | PHYSICIST            |
+------+------------------+----------------------+
5 rows in set (0.00 sec)

mysql>
```

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