

EX.No : 1

RegNo:

Date :

Name:

LOGIN PAGE CREATION WITH TOAST MESSAGE USING RELATIVE LAYOUT

AIM:

To create a login page with toast message using relative layout.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editTextTextPersonName"
```

```

        android:layout_width="236dp"
        android:layout_height="50dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.155" />

<Button
    android:id="@+id/button"
    android:layout_width="199dp"
    android:layout_height="60dp"
    android:layout_marginBottom="268dp"
    android:text="login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPassword"
    app:layout_constraintVertical_bias="1.0" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="247dp"
    android:layout_height="63dp"
    android:layout_marginTop="76dp"
    android:ems="10"
    android:inputType="textPassword"
    android:text="Password"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.53"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
    app:layout_constraintVertical_bias="0.002" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.myapplication;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.*;

```

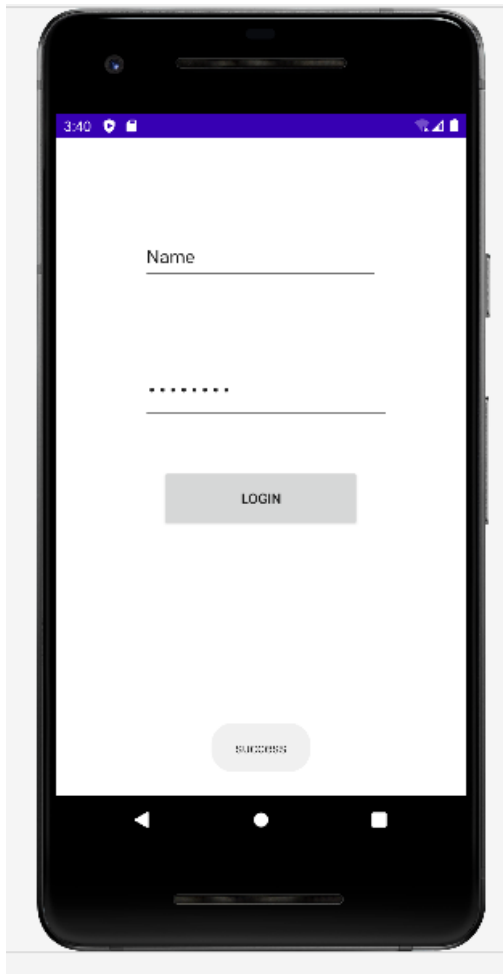
```

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        EditText e1=(EditText)findViewById(R.id.editTextTextPersonName);
        EditText e2=(EditText)findViewById(R.id.editTextTextPassword);
        Button b1=(Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View arg0)
            {
                Toast.makeText(getApplicationContext(), "success", Toast.LENGTH_LONG).show();
            }
        });
    }
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 2

RegNo:

Date :

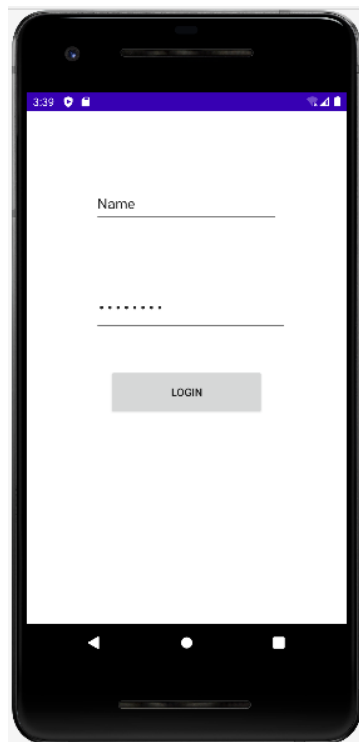
Name:

LOGIN PAGE CREATION USING EXPLICIT INTENT

AIM:

To create a login page using explicit intent.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editTextTextPersonName"
```

```

        android:layout_width="236dp"
        android:layout_height="50dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.155" />

<Button
    android:id="@+id/button"
    android:layout_width="199dp"
    android:layout_height="60dp"
    android:layout_marginBottom="268dp"
    android:text="login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPassword"
    app:layout_constraintVertical_bias="1.0" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="247dp"
    android:layout_height="63dp"
    android:layout_marginTop="76dp"
    android:ems="10"
    android:inputType="textPassword"
    android:text="Password"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.53"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
    app:layout_constraintVertical_bias="0.002" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

- ❖ **Copy activity_main.xml and rename the file named as second_activity_main.xml then save into same place.**

Second_activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".second_activity_main">

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:text="Login Created"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.intent;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.View;
import android.widget.*;

public class MainActivity extends Activity {

    EditText e1,e2;
    Button b1;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        e1 = (EditText)findViewById(R.id.editText1);
        e2 = (EditText)findViewById(R.id.editText2);
        b1 = (Button)findViewById(R.id.button1);
        b1.setOnClickListener(new View.OnClickListener() {

```

@Override

```
public void onClick(View arg0)
{
    String uName = e1.getText().toString();
    String pass = e2.getText().toString();
    if(uName.equals("test")&&pass.equals("test"))
    {
        Intent i = new Intent(MainActivity.this,second.class);
        startActivity(i);
    }
    else
    {
        Toast.makeText(getApplicationContext(), "Login
        Failed",Toast.LENGTH_LONG).show();
    }
}
});
}
```

- ❖ **Copy MainActivity.java and rename the file named as second.java then save into same place.**

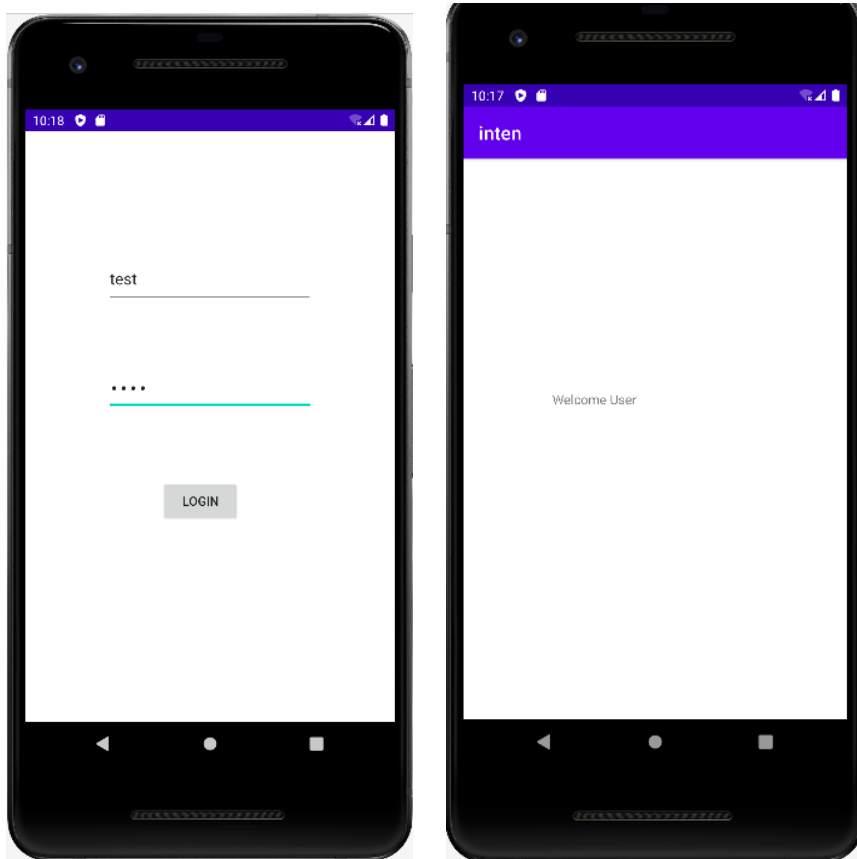
Second.java

```
package com.example.intent;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.widget.*;

public class second extends Activity
{
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second_activity_main);
    }
}
```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 3

RegNo:

Date :

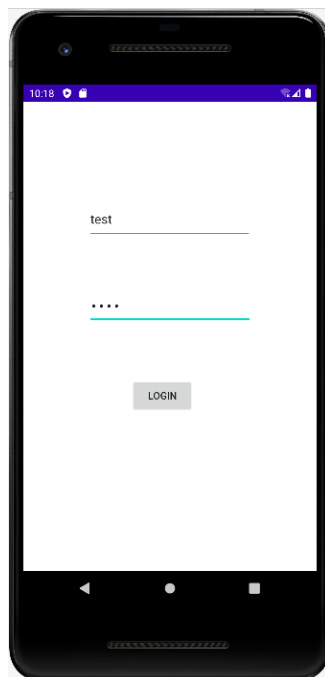
Name:

LOGIN PAGE CREATION USING IMPLICIT INTENT

AIM:

To create a login page using implicit intent.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```

xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="230dp"
    android:layout_height="56dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Name"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.227" />

<EditText
    android:id="@+id/editTextTextPassword"
    android:layout_width="231dp"
    android:layout_height="52dp"
    android:ems="10"
    android:inputType="textPassword"
    android:text="password"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
    app:layout_constraintVertical_bias="0.164" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.466"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPassword"
    app:layout_constraintVertical_bias="0.253" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```
package com.example.intent;
```

```

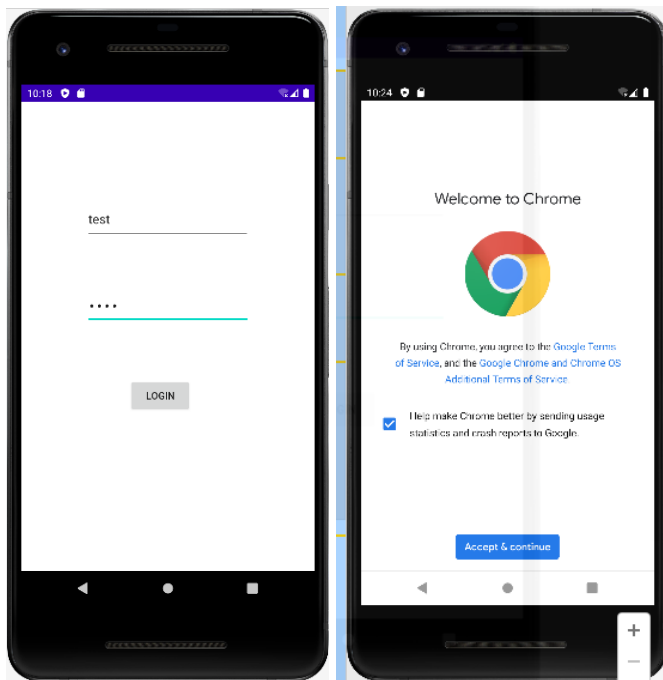
import android.net.Uri;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.View;
import android.widget.*;
public class MainActivity extends Activity {
    EditText e1,e2;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e1 = (EditText)findViewById(R.id.editTextTextPersonName2);
        e2 = (EditText)findViewById(R.id.editTextTextPassword);
        b1 = (Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View arg0)
            {
                Intent i = new Intent(Intent.ACTION_VIEW,Uri.parse("http://www.google.com"));
                startActivity(i);
            }

        });
    }
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 4

RegNo:

Date :

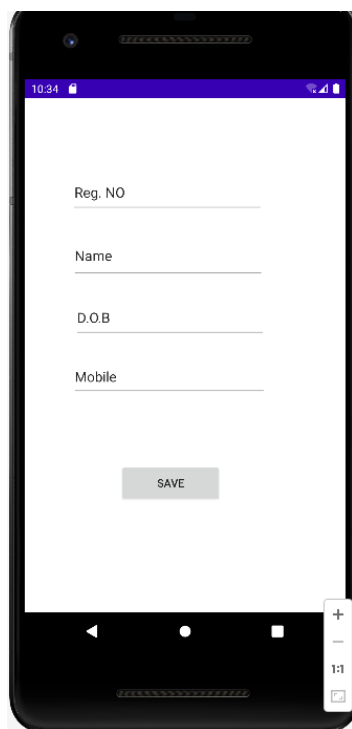
Name:

STUDENT INFORMATION SYSTEM WITH TOAST MESSAGE

AIM:

To create student information system with Toast Message.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools">
```

```
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="247dp"
    android:layout_height="55dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Reg. NO"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.364"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.155" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="131dp"
    android:layout_height="50dp"
    android:layout_marginBottom="44dp"
    android:text="save"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.434"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5"
    app:layout_constraintVertical_bias="0.466" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName3"
    android:layout_width="247dp"
    android:layout_height="59dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Name"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.365"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
    app:layout_constraintVertical_bias="0.054" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName4"
    android:layout_width="246dp"
    android:layout_height="54dp"
    android:ems="10"
```

```

        android:inputType="textPersonName"
        android:text="D.O.B"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.382"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName3"
        app:layout_constraintVertical_bias="0.06" />

<EditText
    android:id="@+id/editTextTextPersonName5"
    android:layout_width="250dp"
    android:layout_height="52dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Mobile"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.372"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName4"
    app:layout_constraintVertical_bias="0.076" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.registration;

import android.os.Bundle;
import android.widget.*;
import android.app.Activity;
import android.view.View;

public class MainActivity extends Activity
{
    EditText e1,e2,e3,e4;
    Button b1;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        e1=(EditText)findViewById(R.id.editTextTextPersonName2);
        e2=(EditText)findViewById(R.id.editTextTextPersonName3);
        e3=(EditText)findViewById(R.id.editTextTextPersonName4);
        e4=(EditText)findViewById(R.id.editTextTextPersonName5);
    }
}

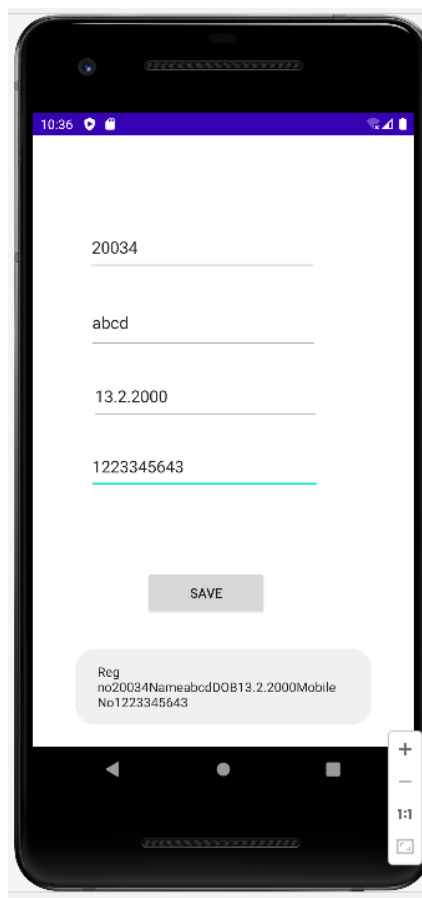
```

```

b1=(Button)findViewById(R.id.button);
b1.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View arg0)
    {
        String s1 = e1.getText().toString();
        String s2 = e2.getText().toString();
        String s3 = e3.getText().toString();
        String s4 = e4.getText().toString();
        Toast.makeText(getApplicationContext(),"Reg no"+ s1 +"Name"+ s2 +"DOB"+
            s3 +"Mobile No"+ s4, Toast.LENGTH_LONG).show();
    }
});
    }
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 5

RegNo:

Date :

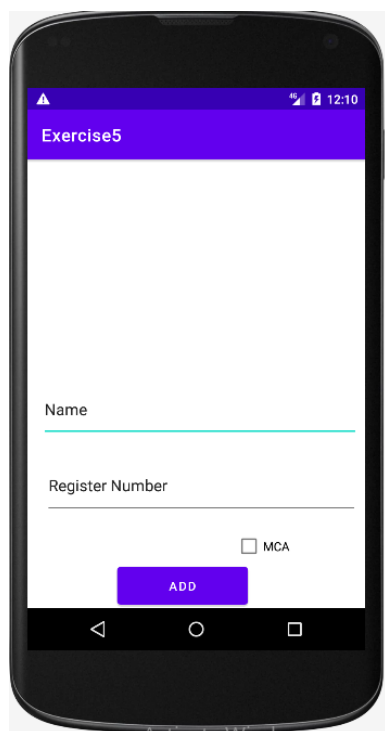
Name:

STUDENT INFORMATION SYSTEM USING LIST VIEW

AIM:

To create a student information system using list view.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<ListView
    android:id="@+id/List1"
    android:layout_width="412dp"
    android:layout_height="319dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="361dp"
    android:layout_height="65dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Name"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.68"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.566" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="356dp"
    android:layout_height="68dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Register Number"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.709"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
    app:layout_constraintVertical_bias="0.16" />
```

```
<CheckBox
    android:id="@+id/checkBox"
    android:layout_width="148dp"
    android:layout_height="61dp"
    android:text="MCA"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
        app:layout_constraintVertical_bias="0.102" />

<Button
    android:id="@+id/button"
    android:layout_width="149dp"
    android:layout_height="55dp"
    android:onClick="clickme"
    android:text="Add"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.435"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/checkbox"
    app:layout_constraintVertical_bias="0.879" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.exercise5;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.ListView;

public class MainActivity extends AppCompatActivity {
    EditText e1,e2;
    CheckBox c1;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        e1=(EditText)findViewById(R.id.editTextTextPersonName);
        e2=(EditText)findViewById(R.id.editTextTextPersonName2);
        c1=(CheckBox)findViewById(R.id.checkbox);
        b1=(Button)findViewById(R.id.button);

    }
    public void clickme(View v)
    {
        ListView lv=(ListView)findViewById(R.id.List1);
        String str1=e1.getText().toString();

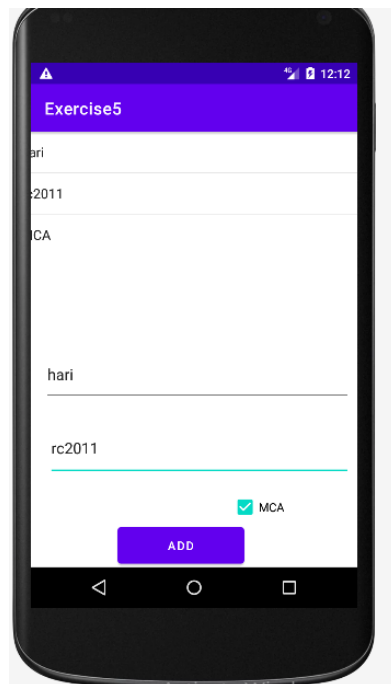
```

```

String str2=e2.getText().toString();
String str3;
if (c1.isChecked() ==true) {
    str3 = c1.getText().toString();
}
else {
    str3=" ";
}
String[] data={str1,str2,str3};
ArrayAdapter<String> adapter=new ArrayAdapter<String>(this,
    android.R.layout.simple_list_item_1,data);
lv.setAdapter(adapter);
}
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 6

Date :

RegNo:

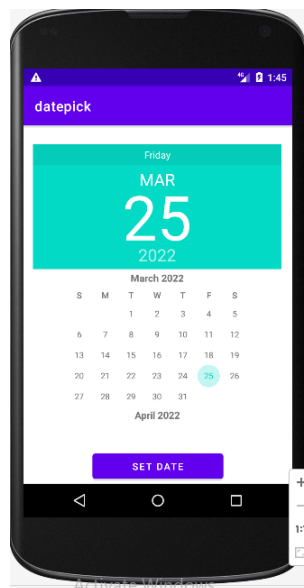
Name:

IMPLEMENT DATE PICKER AND DISPLAY SELECTED DATE

AIM:

To display the selected date from the calendar using date picker

DESIGN:



PROGRAM:

activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <DatePicker
        android:id="@+id/datepk1"
        android:layout_width="355dp"
```

```

        android:layout_height="453dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.47"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.044" />

<Button
    android:id="@+id/button"
    android:layout_width="187dp"
    android:layout_height="48dp"
    android:text="Set Date"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/datepk1"
    app:layout_constraintVertical_bias="0.877" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java:

```

package com.example.datepick;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

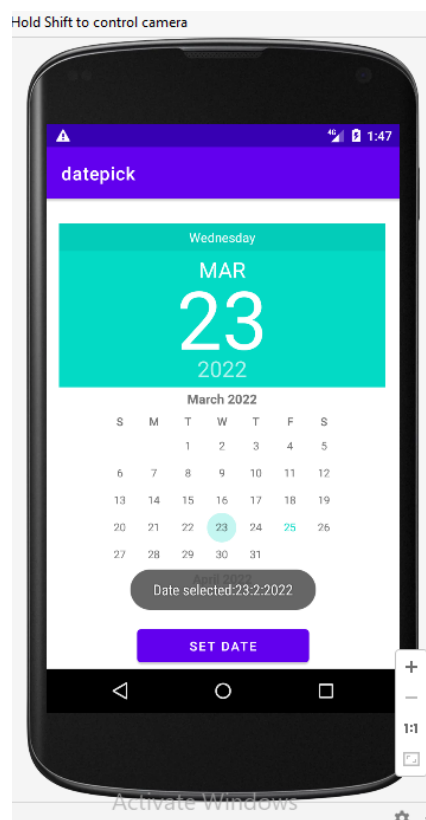
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button b1=(Button)findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View arg0)
            {
                DatePicker d1=(DatePicker)findViewById(R.id.datepk1);
                Toast.makeText(getApplicationContext(),"Date
selected:"+d1.getDayOfMonth()+":"+d1.getMonth()+":"+d1.getYear(),Toast.LENGTH_SHO
RT).show();
            }
        }
    }
}

```

```
});  
  
}  
  
}
```

OUTPUT:



RESULT:

Thus the program has been executed and completed successfully.

EX.No : 7
Date :

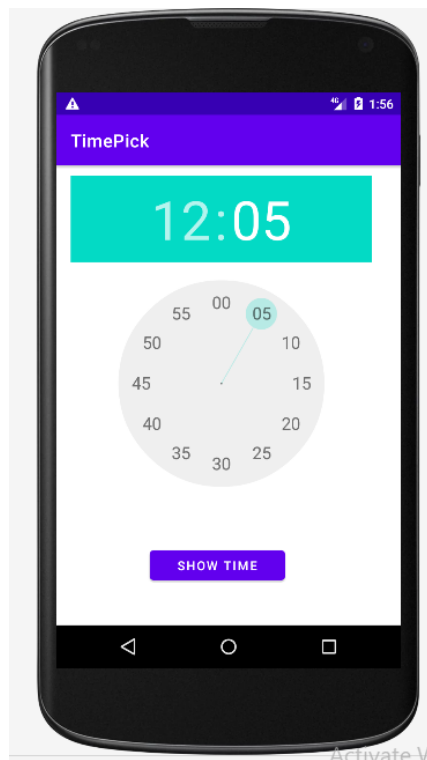
RegNo:
Name:

IMPLEMENT TIME PICKER AND DISPLAY SELECTED TIME

AIM:

To display the selected time from the timer using time picker

DESIGN:



PROGRAM:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<TimePicker
    android:id="@+id/timepk1"
    android:layout_width="336dp"
    android:layout_height="395dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.333"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.101"
    tools:ignore="MissingConstraints" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="151dp"
    android:layout_height="48dp"
    android:text="Show Time"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.446"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/timepk1"
    app:layout_constraintVertical_bias="0.26" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
package com.example.timepick;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.TimePicker;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        Button b1=(Button) findViewById(R.id.button);
```

```
        b1.setOnClickListener(new View.OnClickListener()
```

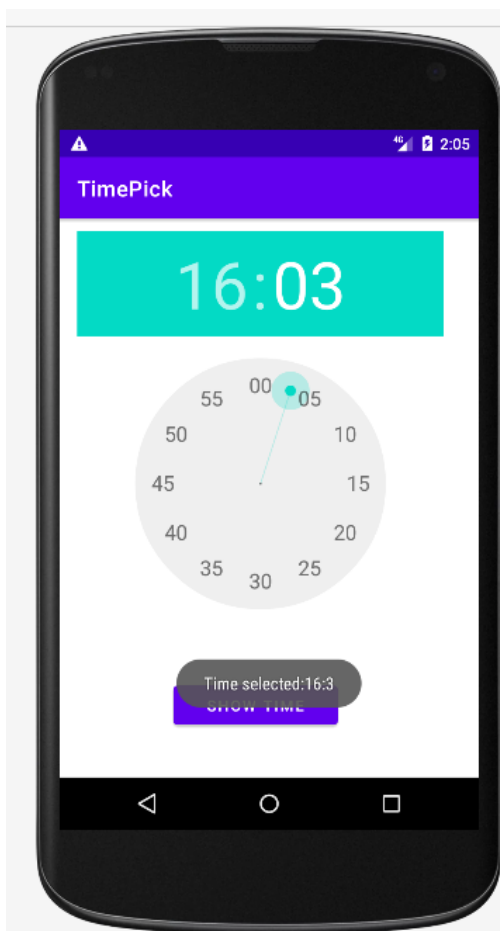
```

{
    @Override

    public void onClick(View arg0)
    {
        TimePicker t1=(TimePicker)findViewById(R.id.timepk1);
        t1.setIs24HourView(true);
        Toast.makeText(getBaseContext(),"Time selected:"+t1.getCurrentHour()+":"
            +t1.getCurrentMinute(),Toast.LENGTH_SHORT).show();
    }
});
}
}

```

OUTPUT:



RESULT:

Thus the program has been executed and completed successfully.

EX.No : 8**Date :****RegNo:****Name:****CREATE AN APPLICATION FOR OPTION MENU****AIM:**

To create an application for option menu

DESIGN:**PROGRAM:****Activity_main.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
```

```

app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

- ❖ Goto res folder □ right click □ new □ android resource file □ File Name: menu □ Resource Type: menu □ ok (it creates menu folder under res)
- ❖ Select menu.xml and write the below code

Menu(menu.xml)

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/item1"
        android:title="Copy" />
    <item
        android:id="@+id/item2"
        android:title="Paste" />
    <item
        android:id="@+id/item3"
        android:title="Close" />
</menu>

```

MainActivity.java:

```
package com.example.exercise8;
```

```

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

```

```

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu)
    {
        getMenuInflater().inflate(R.menu.menu_activity, menu);
    }
}

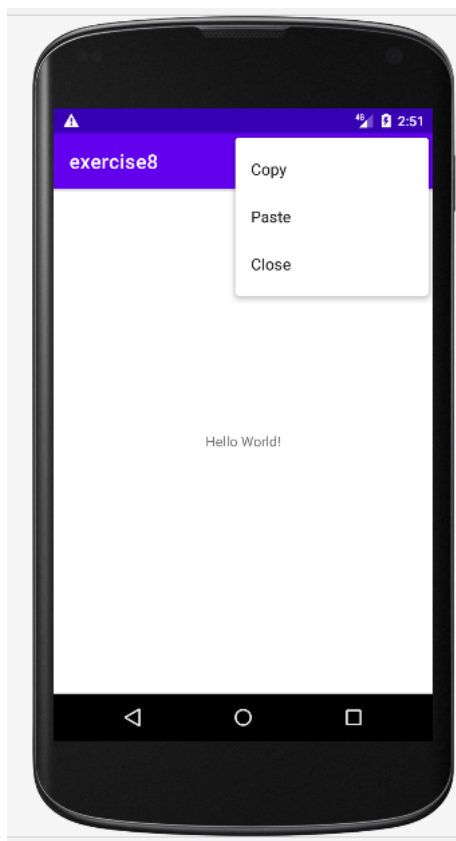
```

```

        return true;
    }
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.item1:
                Toast.makeText(this, "Closes Item Selected ",
                    Toast.LENGTH_LONG).show();
                return true;
            case R.id.item2:
                Toast.makeText(this, "Copy Item Selected ",
                    Toast.LENGTH_LONG).show();
                return true;
            case R.id.item3:
                Toast.makeText(this, "Paste Item Selected",
                    Toast.LENGTH_LONG).show();
                return true;
            default:
                throw new IllegalStateException("Unexpected value: " + item.getItemId());
        }
    }
}

```

Output:



RESULT:

Thus the program has been executed and completed successfully.

EX.No : 9

Date :

RegNo:

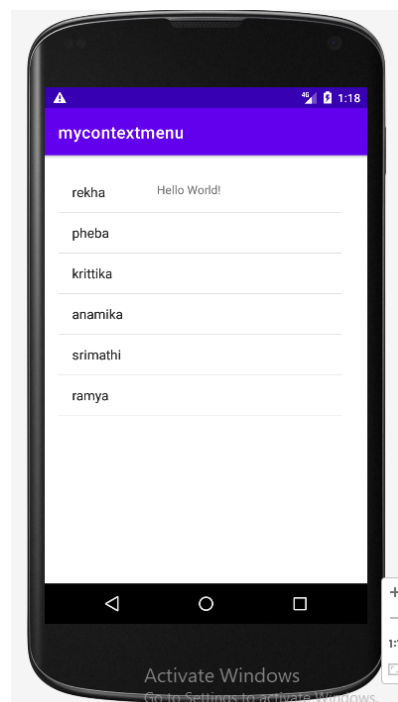
Name:

CREATE AN APPLICATION FOR CONTEXT MENU

AIM:

To create an application for context menu

DESIGN:



PROGRAM:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
```

```

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/Listview1"
        android:layout_width="337dp"
        android:layout_height="513dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.351"
        app:layout_constraintStart_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java:

```

package com.example.context;

import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.view.ContextMenu.ContextMenuInfo;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
import android.app.Activity;
import android.view.Menu;

public class MainActivity extends Activity
{
    Stringcontact[]={"rekha","pheba","krittika","anamika","srimathi",
                    "ramya"}; ListView listview;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        listview=(ListView)findViewById(R.id.listView1);

        ArrayAdapter<String>ad=new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1,contact);
        listview.setAdapter(ad);
        registerForContextMenu(listview);
    }

    public void onCreateContextMenu(ContextMenu menu, View v,

```

```

ContextMenuInfo menuInfo)
{
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("select the action");
    menu.add(0,v.getId(),0,"call");
    menu.add(0,v.getId(),0,"sms");
}

@Override
public boolean onOptionsItemSelected(MenuItem item)
{
    if(item.getTitle()=="call")
    {
        Toast.makeText(this, "Now Call ", Toast.LENGTH_LONG).show();
    }
    else if(item.getTitle()=="sms")
    {
        Toast.makeText(this, "Now sms ", Toast.LENGTH_LONG).show();
    }
    return true;
}
}

```

- ❖ Goto res folder → right click → new → android resource file → File Name: menu → Resource Type: menu → ok (it creates menu folder under res)
- ❖ Right click menu folder → new → menu Resource file- → type name → click ok
- ❖ Select menu.xml and write the below code

Menu(contextmenu.xml)

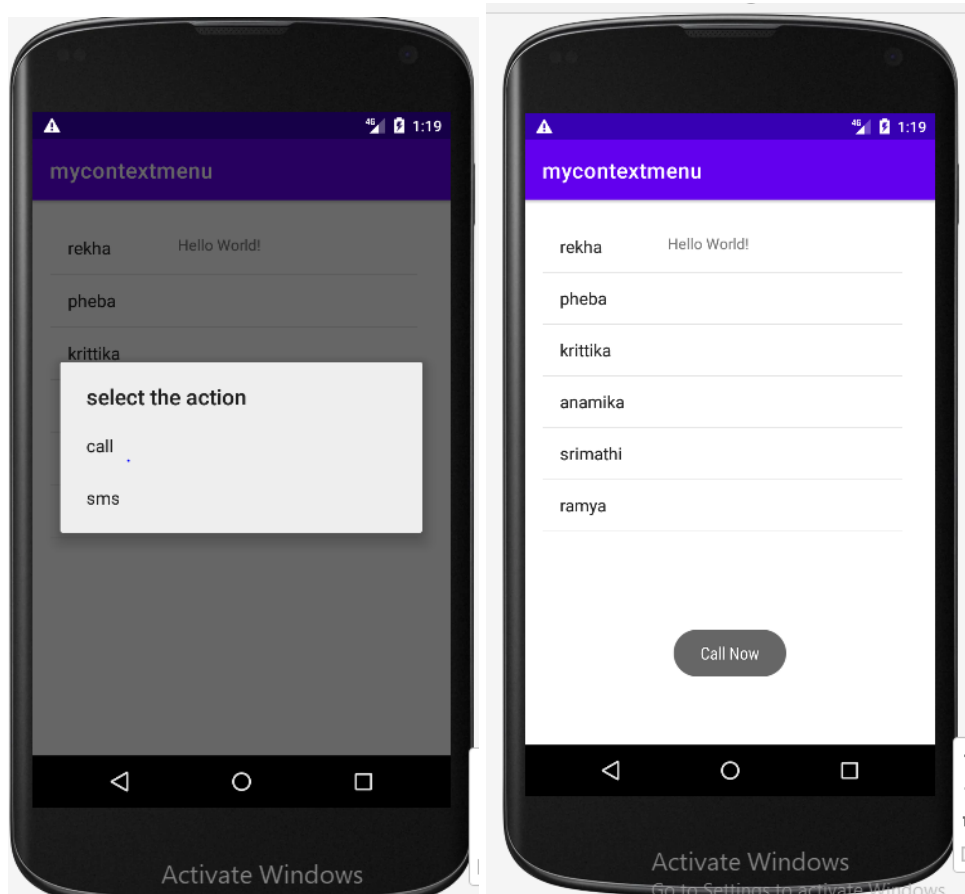
```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/call"
        android:title="call" />
    <item
        android:id="@+id/sms"
        android:title="sms" />
</menu>

```

OUTPUT:



RESULT:

Thus the program has been executed and verified.

EX.No : 10**Date :****RegNo:****Name:****SIMULATE THE PAINT BRUSH APPLICATION****AIM:**

To Simulate Paint Brush application

DESIGN:**PROGRAM:****activity_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
```

```

android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

```

```

<ImageView
    android:id="@+id/imageView2"
    android:layout_width="422dp"
    android:layout_height="406dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.344" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.exer10;

```

```

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.view.MotionEvent;
import android.view.View;
import android.widget.ImageView;

```

```

public class MainActivity extends AppCompatActivity {

```

```

    ImageView i;
    Bitmap b;
    Canvas c;
    Paint p;
    float dx,dy,upx,upy;
    @SuppressLint("ClickableViewAccessibility")
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        i=findViewById(R.id.imageView2);
        b=Bitmap.createBitmap(500,500,Bitmap.Config.ARGB_8888);
        c=new Canvas(b);
        i.setImageBitmap(b);
        p=new Paint();
        p.setStrokeWidth(6);
    }
}

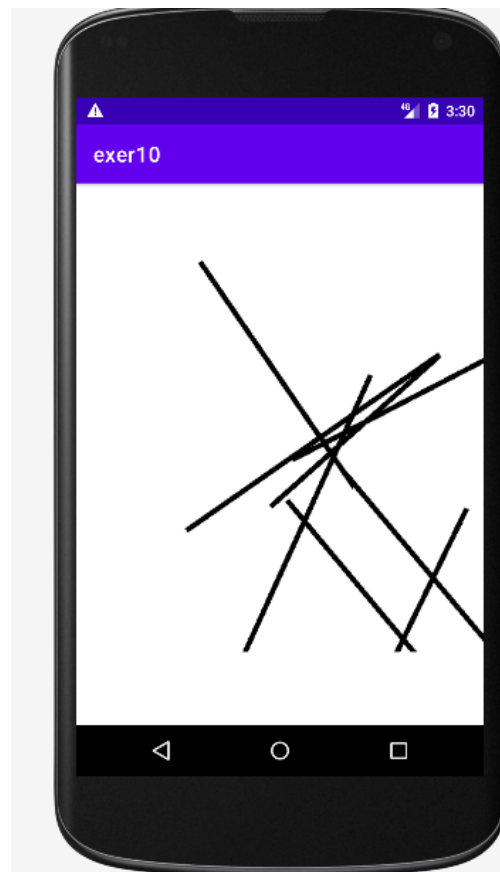
```

```

p.setColor(Color.BLACK);
i.setOnTouchListener(new View.OnTouchListener()
{
    @Override
    public boolean onTouch(View arg0, MotionEvent event)
    {
        int act=event.getAction();
        switch(act)
        {
            case MotionEvent.ACTION_DOWN: dx=event.getX();
            dy=event.getY();
            break;
            case MotionEvent.ACTION_UP: upx=event.getX();
            upy=event.getY();
            c.drawLine(dx, dy,upx, upy,p);
            i.invalidate();
            break;
            default:
            break;
        }
        return true;
    }
});
}
}

```

OUTPUT:

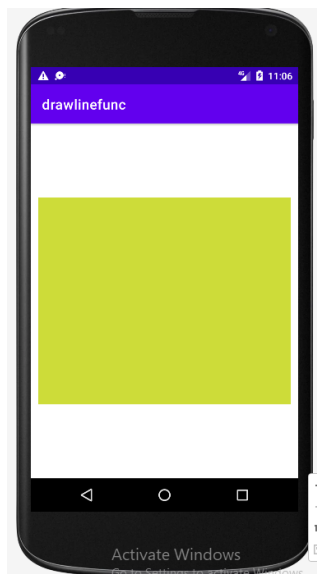


RESULT:

Thus the program has been verified and completed successfully.

EX.No : 11**Date :****RegNo:****Name:****DRAW LINE USING BUILT-IN FUNCTION****AIM:**

To draw line using built – in function

DESIGN:**PROGRAM:****activity_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
```

```
tools:context=".MainActivity">
```

```
<ImageView  
    android:id="@+id/imageView"  
    android:layout_width="363dp"  
    android:layout_height="297dp"  
    android:background="#CDDC39"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.line;
```

```
import android.os.Bundle;  
import android.app.Activity;  
import android.view.Menu;  
import android.view.MotionEvent;  
import android.view.View;  
import android.graphics.Bitmap;  
import android.graphics.Canvas;  
import android.graphics.Color;  
import android.graphics.Paint;  
import android.widget.ImageView;
```

```
public class MainActivity extends Activity  
{
```

```
    ImageView i;
```

```
    Bitmap b;
```

```
    Canvas c;
```

```
    Paint p;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState)
```

```
    {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        i=(ImageView)findViewById(R.id.imageView1);
```

```
        b=Bitmap.createBitmap(300,300,Bitmap.Config.ARGB_8888);
```

```
        c=new Canvas(b);
```

```
        i.setImageBitmap(b);
```

```
        p=new Paint();
```

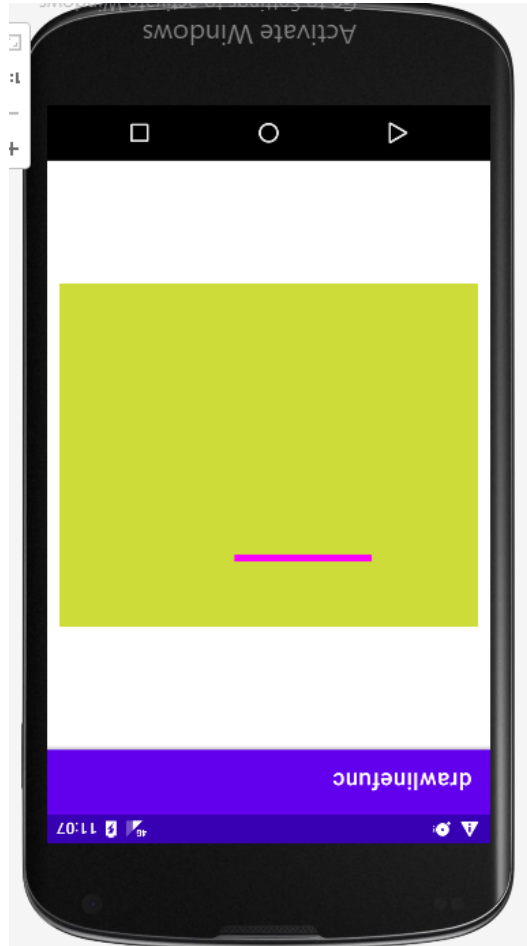
```
        p.setStrokeWidth(10);
```

```
        p.setColor(Color.MAGENTA);
```

```
        c.drawLine(300, 100, 100, 100, p);
```

```
        i.invalidate();
```

```
}  
}  
OUTPUT:
```



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 12

Date :

RegNo:

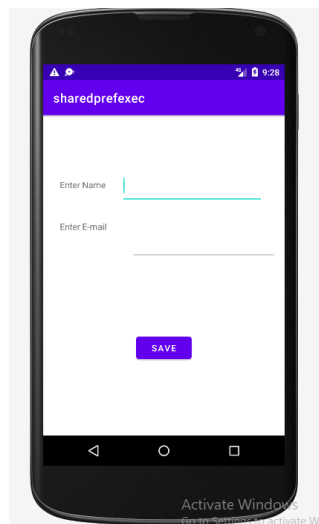
Name:

CREATE A DATABASE WITH TWO DIFFERENT FIELDS USING SHARED PREFERENCE

AIM:

To Create Database with two fields using Shared Preference.

DESIGN:



PROGRAM:

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="92dp"
        android:layout_height="40dp"
```

```

        android:text="Enter Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.091"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.216" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="97dp"
    android:layout_height="57dp"
    android:text="Enter E-mail"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.092"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"
    app:layout_constraintVertical_bias="0.084" />

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="227dp"
    android:layout_height="57dp"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.786"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.186"
    tools:ignore="SpeakableTextPresentCheck" />

<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="232dp"
    android:layout_height="65dp"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.557"
    app:layout_constraintStart_toEndOf="@+id/textView2"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
    app:layout_constraintVertical_bias="0.081"
    tools:ignore="SpeakableTextPresentCheck,SpeakableTextPresentCheck" />

<Button
    android:id="@+id/button"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Save"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.sharedprefexec;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText ed1,ed2;
    Button b1;
    public static final String MyPREFERENCES="Myprefs";
    public static final String Name="namekey";

    public static final String email="emailkey";
    SharedPreferences sharedPreferences;

    @Override

    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        ed1=(EditText)findViewById(R.id.editTextTextPersonName);
        ed2=(EditText)findViewById(R.id.editTextTextPersonName2);
        b1=(Button)findViewById(R.id.button);

        sharedPreferences=getSharedPreferences(MyPREFERENCES,Context.MODE_PRIVATE);
        b1.setOnClickListener(new View.OnClickListener()
        {

            @Override
            public void onClick(View arg0)

```

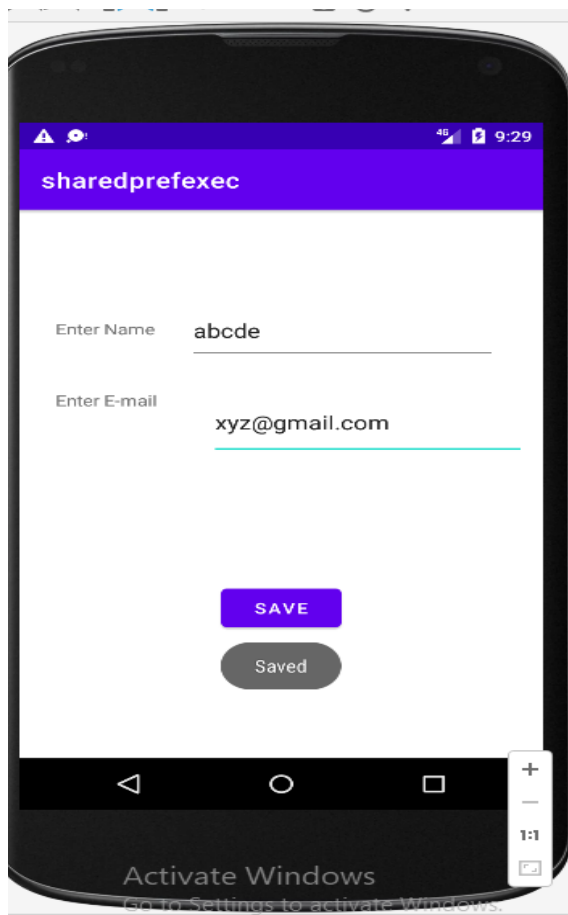
```

    {
        // TODO Auto-generated method stub

        String n=ed1.getText().toString();
        String e=ed1.getText().toString();
        SharedPreferences.Editor editor=sharedPreferences.edit();
        editor.putString(Name, n);
        editor.putString(email, e);
        editor.commit();
        Toast.makeText(MainActivity.this,"Saved", Toast.LENGTH_LONG).show();
    }
    });
}
}
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 13

Date :

RegNo:

Name:

CREATE A DATABASE WITH TWO DIFFERENT FIELDS USING SQLite

AIM:

To Create a Database with two fields using SQLite.

DESIGN:



PROGRAM:

activity_main.xml

<?xml

version="1.0" encoding="utf-8"?>

```
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="237dp"
    android:layout_height="64dp"
```

```

android:ems="10"
android:inputType="textPersonName"
android:text="Name"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.574"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.076" />

```

<EditText

```

android:id="@+id/editTextTextPersonName2"
android:layout_width="240dp"
android:layout_height="54dp"
android:layout_marginTop="76dp"
android:ems="10"
android:inputType="textPersonName"
android:text="Regno"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.567"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
app:layout_constraintVertical_bias="0.002" />

```

<Button

```

android:id="@+id/button3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="44dp"
android:text="DisplayAll"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.23"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button"
app:layout_constraintVertical_bias="0.188" />

```

<Button

```

android:id="@+id/button4"
android:layout_width="139dp"
android:layout_height="51dp"
android:text="Close"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.685"
app:layout_constraintStart_toEndOf="@+id/button3"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintVertical_bias="0.32" />

```

```

<Button
    android:id="@+id/button"
    android:layout_width="133dp"
    android:layout_height="wrap_content"
    android:text="Insert"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.208"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
    app:layout_constraintVertical_bias="0.279" />

```

```

<Button
    android:id="@+id/button2"
    android:layout_width="136dp"
    android:layout_height="50dp"
    android:text="Display "
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.86"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
    app:layout_constraintVertical_bias="0.279" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.databaseexec;

```

```

import android.os.Bundle;
import android.app.Activity;
import android.database.sqlite.*;
import android.database.*;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

```

```

public class MainActivity extends Activity
{
    EditText ed1,ed2;
    Button b1,b2,b3,b4;
    SQLiteDatabase db;
    Cursor c;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}

```

```

db=openOrCreateDatabase("empk121",MODE_PRIVATE,null);
db.execSQL("create table emplogin1k(uname varchar,password varchar); ");

ed1=(EditText)findViewById(R.id.editTextTextPersonName);
ed2=(EditText)findViewById(R.id.editTextTextPersonName2);
b1=(Button)findViewById(R.id.button);
b2=(Button)findViewById(R.id.button2);
b3=(Button)findViewById(R.id.button3);
b4=(Button)findViewById(R.id.button4);
ed1.setText(" ");
ed2.setText(" ");
c=db.rawQuery("select * from emplogin1k;", null);

b1.setOnClickListener(new View.OnClickListener( )
{

    @Override
    public void onClick(View arg0)
    {
        // TODO Auto-generated method stub

        String name=ed1.getText().toString();
        String passwd=ed2.getText().toString();
        db.execSQL(" insert into emplogin1k values ('"+name+"','"+passwd+"');");
        Toast.makeText(getApplicationContext(), "Saved", Toast.LENGTH_LONG).show();
        c=db.rawQuery("select * from emplogin1k;", null);
    }

});

b3.setOnClickListener(new View.OnClickListener( )
{

    @Override
    public void onClick(View arg0)
    {
        // TODO Auto-generated method stub

        if(c.isLast()===true)
        {
            c.moveToFirst();
        }
        else{
            c.moveToNext();
        }
        ed1.setText(c.getString(0));
        ed2.setText(c.getString(1));
    }

});

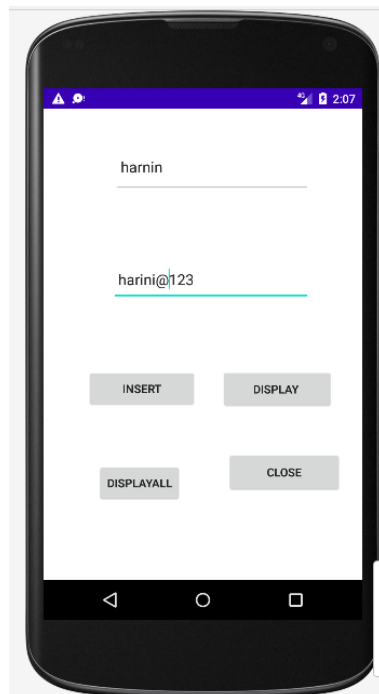
```

```

b2.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View arg0)
    {
        // TODO Auto-generated method stub
        Cursor c=db.rawQuery("select * from emplogin1k;", null);
        c.moveToFirst();
        //c.moveToLast();
        ed1.setText(c.getString(0));
        ed2.setText(c.getString(1));
    }
});
b4.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View arg0)
    {
        // TODO Auto-generated method stub
        finish();
    }
});
}
}

```

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.

EX.No : 14

RegNo:

Date :

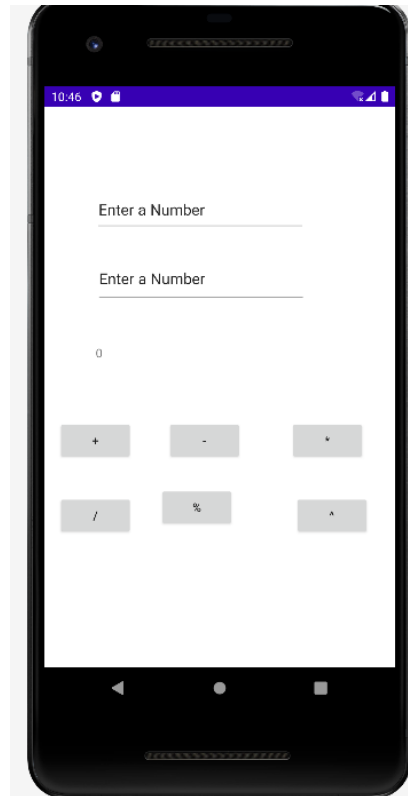
Name:

Android Calculator APP

AIM:

To create a simple calculator application in android.

DESIGN:



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="247dp"
    android:layout_height="55dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Enter a Number"
```

```

app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.364"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.155" />

<EditText
    android:id="@+id/editTextTextPersonName1"
    android:layout_width="247dp"
    android:layout_height="59dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Enter a Number"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.365"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2"
    app:layout_constraintVertical_bias="0.054" />

<TextView
    android:id="@+id/textView"
    android:layout_width="232dp"
    android:layout_height="48dp"
    android:text="0"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.335"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName3"
    app:layout_constraintVertical_bias="0.125" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="+"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.05"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2"
    app:layout_constraintVertical_bias="0.143" />

<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="-"

```

```

app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.183"
app:layout_constraintStart_toEndOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/textView2"
app:layout_constraintVertical_bias="0.143" />

```

```

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="144dp"
    android:text="*"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/button3"
    app:layout_constraintTop_toBottomOf="@+id/textView2"
    app:layout_constraintVertical_bias="0.143" />

```

```

<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="/"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.05"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button2"
    app:layout_constraintVertical_bias="0.205" />

```

```

<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="124dp"
    android:text="%"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.14"
    app:layout_constraintStart_toEndOf="@+id/button5"
    app:layout_constraintTop_toBottomOf="@+id/button3"
    app:layout_constraintVertical_bias="0.429" />

```

```

<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="^"

```

```

app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.702"
app:layout_constraintStart_toEndOf="@+id/button6"
app:layout_constraintTop_toBottomOf="@+id/button4"
app:layout_constraintVertical_bias="0.205" />

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.simplecal;
```

```

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.*;

```

```

public class MainActivity extends Activity {
    Button b1,b2,b3,b4,b5,b6,b7;
    EditText ed1,ed2;
    TextView tv;
    int num1,num2,res;

```

```
@Override
```

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    b1=(Button)findViewById(R.id.button);
    b2=(Button)findViewById(R.id.button1);
    b3=(Button)findViewById(R.id.button2);
    b4=(Button)findViewById(R.id.button3);
    b5=(Button)findViewById(R.id.button4);
    b6=(Button)findViewById(R.id.button5);
    ed1=(EditText)findViewById(R.id.editTextTextPersonName);
    ed2=(EditText)findViewById(R.id.editTextTextPersonName1);
    tv=(TextView)findViewById(R.id.textView);
    num1=0;
    num2=0;

```

```
b1.setOnClickListener(new View.OnClickListener() {
```

```
@Override
```

```

public void onClick(View arg0) {
    // TODO Auto-generated method stub
    num1=Integer.parseInt(ed1.getText().toString());
    num2=Integer.parseInt(ed2.getText().toString());

```

```

        res=num1+num2;
        String str=String.valueOf(res);
        tv.setText(str);
    }
});
b2.setOnClickListener(new View.OnClickListener() {

```

```

    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        num1=Integer.parseInt(ed1.getText().toString());
        num2=Integer.parseInt(ed2.getText().toString());
        res=num1-num2;
        String str=String.valueOf(res);
        tv.setText(str);
    }
});
b3.setOnClickListener(new View.OnClickListener() {

```

```

    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        num1=Integer.parseInt(ed1.getText().toString());
        num2=Integer.parseInt(ed2.getText().toString());
        res=num1*num2;
        String str=String.valueOf(res);
        tv.setText(str);
    }
});
b4.setOnClickListener(new View.OnClickListener() {

```

```

    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        num1=Integer.parseInt(ed1.getText().toString());
        num2=Integer.parseInt(ed2.getText().toString());
        Double x,y,z;
        x= new Double(num1);
        y=new Double(num2);
        z=x/y;
        tv.setText(z.toString());
    }
});
b5.setOnClickListener(new View.OnClickListener() {

```

```

    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        num1=Integer.parseInt(ed1.getText().toString());
        num2=Integer.parseInt(ed2.getText().toString());

```

```

        res=num1%num2;

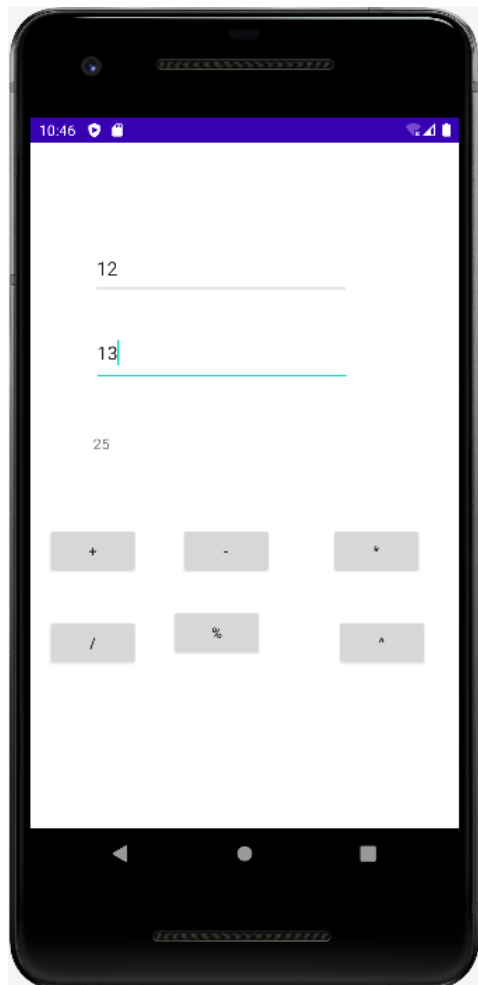
        String str=String.valueOf(res);
        tv.setText(str);
    }
});
b6.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        num1=Integer.parseInt(ed1.getText().toString());
        num2=Integer.parseInt(ed2.getText().toString());
        Double x,y,z;
        x= new Double(num1);
        y=new Double(num2);
        z=Math.pow(x, y);
        tv.setText(z.toString());
    }
});
}

}

```

OUTPUT:



EX.No
RegNo:
Date :

Android

AIM:

To Create a Stop watch app in android.

DESIGN:

RESULT:

Thus the program has been verified and completed successfully.

: 15

Name:

Stopwatch APP



PROGRAM:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Start"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView3"
        app:layout_constraintVertical_bias="0.174" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="88dp"
        android:text="Stop"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button8" />
```

```

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Reset"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button9"
    app:layout_constraintVertical_bias="0.357" />

<TextView
    android:id="@+id/textView"
    android:layout_width="226dp"
    android:layout_height="56dp"
    android:text="00:00:00"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.222" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.swatch;
import java.util.Locale;
import android.os.Bundle;
import android.os.Handler;
import android.app.Activity;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends Activity {
    private int seconds = 0;
    private boolean running;
    private boolean wasRunning;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        runTimer();
    }

    protected void onPause()
    {
        super.onPause();
        wasRunning = running;
        running = false;
    }

```

```

}
@Override
protected void onResume()
{
    super.onResume();
    if (wasRunning) {
        running = true;
    }
}

public void onClickStart(View view)
{
    running = true;
}

public void onClickStop(View view)
{
    running = false;
}

public void onClickReset(View view)
{
    running = false;
    seconds = 0;
}

private void runTimer()
{
    final TextView timeView = (TextView)findViewById(R.id.textView1);

    final Handler handler = new Handler();

    handler.post(new Runnable() {
        @Override

        public void run()
        {
            int hours = seconds / 3600;
            int minutes = (seconds % 3600) / 60;
            int secs = seconds % 60;

            String time = String.format(Locale.getDefault(), "%d:%02d:%02d",
hours, minutes, secs);
            timeView.setText(time);

            if (running) {
                seconds++;
            }
            handler.postDelayed(this, 700);
        }
    });
}

```

```
}  
}
```

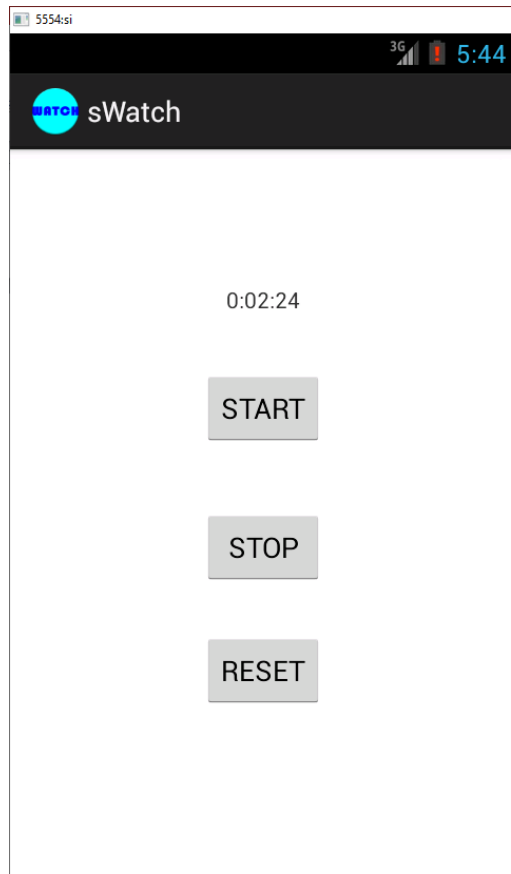
❖ **GO to OnClick Property for button1,button2,button3 and set them as follows**

Button1 OnClick= onClickStart

Button2 OnClick = onClickStop

Button3 OnClick = onClickReset

OUTPUT:



RESULT:

Thus the program has been verified and completed successfully.