Program-2:Develop an Android application using controls like Button, TextView, EditText for designing a calculator having basic functionality like Addition, Subtraction, Multiplication, and Division.

```
XML-CODE:

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

<RelativeLayout 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"</pre>
```

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:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="98dp"
android:layout_marginBottom="653dp"
android:text="SIMPLE CALCI"
android:textSize="38dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.042" />
```

<EditText

```
android:id="@+id/editText1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="115dp"
android:layout_marginBottom="547dp"
android:ems="10"
android:hint="Enter the First Number"
android:inputType="textPersonName"
android:text=""/>
```

<EditText

android:id="@+id/editText2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="111dp"
android:layout_marginBottom="455dp"
android:ems="10"
android:inputType="textPersonName"
android:hint="Enter the Second Number"
android:text=""/>

<TextView

android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="203dp"
android:layout_marginBottom="350dp"
android:text="0"
android:textSize="40dp"/>

<Button

android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="274dp"
android:layout_marginBottom="237dp"
android:onClick="doAdd"
android:text="ADD" />

<Button

android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="68dp"
android:layout_marginBottom="233dp"
android:onClick="doSub"

```
android:text="SUB" />
<Button
    android:id="@+id/button3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginEnd="277dp"
    android:layout marginBottom="115dp"
    android:onClick="doMul"
    android:text="MUL" />
<Button
    android:id="@+id/button4"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginEnd="63dp"
    android:layout marginBottom="104dp"
    android:onClick="doDiv"
    android:text="DIV" />
</RelativeLayout>
JAVA-CODE:
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  EditText e1,e2;
  TextView tv1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    e1 = (EditText)findViewBvId(R.id.editText1);
    e2 = (EditText)findViewById(R.id.editText2);
    tv1 = (TextView)findViewById(R.id.textView1);
  public void doAdd(View V){
    int a1 = Integer.parseInt(e1.getText().toString());
```

```
int a2 = Integer.parseInt(e2.getText().toString());
    int result= a1+a2;
    tv1.setText(""+result);
  public void doSub(View V){
    int a1 = Integer.parseInt(e1.getText().toString());
    int a2 = Integer.parseInt(e2.getText().toString());
    int result= a1-a2;
    tv1.setText(""+result);
  public void doMul(View V){
    int a1 = Integer.parseInt(e1.getText().toString());
    int a2 = Integer.parseInt(e2.getText().toString());
    int result= a1*a2;
    tv1.setText(""+result);
  public void doDiv(View V){
    int a1 = Integer.parseInt(e1.getText().toString());
    int a2 = Integer.parseInt(e2.getText().toString());
    float result= a1/a2;
    tv1.setText(""+result);
}
```

Output:

