## **Program 6**

Develop a Standard calculator application to perform basic calculations like addition, subtraction, multiplication and Division using 2 EditText and 1 TextView for displaying result.

## Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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/e1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text=""
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.007" />
    <EditText
        android:id="@+id/e2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text=""
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.55"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.103" />
    <TextView
        android:id="@+id/result"
        android:layout width="151dp"
        android:layout height="73dp"
        android:text=""
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.2" />
    <Button
        android:id="@+id/badd"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="+"
        app:layout constraintBottom toBottomOf="parent"
```

```
app:layout constraintHorizontal bias="0.034"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.316" />
    <Button
        android:id="@+id/bsub"
        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="0.402"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.316" />
    <Button
        android:id="@+id/bmul"
        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="0.693"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.316" />
    <Button
        android:id="@+id/bdiv"
        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="0.996"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.316" />
</androidx.constraintlayout.widget.ConstraintLayout>
Main activity.java
package com.example.finalpgm6;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView res;
    EditText n1, n2;
```

Button ba, bs, bm, bd;

app:layout constraintEnd toEndOf="parent"

```
double val1, val2, r;
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        res=(TextView) findViewById(R.id.result);
        n1=(EditText)findViewById(R.id.e1);
        n2=(EditText) findViewById(R.id.e2);
        ba=(Button) findViewById(R.id.badd);
        bs=(Button) findViewById(R.id.bsub);
        bm= (Button) findViewById(R.id.bmul);
        bd=(Button) findViewById(R.id.bdiv);
        ba.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                val1=Double.parseDouble(n1.getText().toString());
                val2=Double.parseDouble(n2.getText().toString());
                r=val1+val2;
                res.setText(Double.toString(r));
            }
        });
        bs.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                val1=Double.parseDouble(n1.getText().toString());
                val2=Double.parseDouble(n2.getText().toString());
                r=val1-val2;
                res.setText(Double.toString(r));
        });
        bm.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                val1=Double.parseDouble(n1.getText().toString());
                val2=Double.parseDouble(n2.getText().toString());
                r=val1*val2;
                res.setText(Double.toString(r));
        });
        bd.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                val1=Double.parseDouble(n1.getText().toString());
                val2=Double.parseDouble(n2.getText().toString());
                r=val1/val2;
                res.setText(Double.toString(r));
       });
   }
}
```



