

Name: Anurag Kumar
Reg Number: 20BCE11012
Slot: C11+C12

Calculator Application

XML Code:

```
<?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"
    android:background="@drawable/bgimg"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/etn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="#171717"
        android:ems="10"
        android:hint="Enter Number 1"
        android:inputType="number"
        android:textColor="@color/white"
        android:textColorHint="#878686"
        android:visibility="visible"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.308"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.142"
        tools:visibility="visible" />

    <EditText
        android:id="@+id/etn2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="48dp"
        android:backgroundTint="#000000"
        android:ems="10"
        android:hint="Enter Number 2"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.303"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/etn1"
        app:layout_constraintVertical_bias="0.027" />

    <TextView
        android:id="@+id/tvResult"
        android:layout_width="86dp"
        android:layout_height="39dp"
        android:text="RESULT"
        android:textSize="20sp"
        android:textStyle="bold"
```

```
app:drawableTint="#FFFFFF"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.187"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.497" />
```

<Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="340dp"
android:onClick="btnsum"
android:text="SUM"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.842"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/tvResult"
app:layout_constraintVertical_bias="1.0" />
```

<Button

```
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:onClick="btnsub"
android:text="SUB"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.842"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button" />
```

<Button

```
android:id="@+id/button3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="20dp"
android:onClick="btnmulti"
android:text="MULTI"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.842"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button2" />
```

<Button

```
android:id="@+id/button4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="12dp"
android:onClick="btndiv"
android:text="DIV"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.842"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button3"
app:layout_constraintVertical_bias="0.0" />
```

<TextView

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="52dp"
android:text="Made with ♥ Anurag Kumar (20BCE11012)"
android:textSize="15sp"
app:drawableTint="#000000"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
tools:ignore="MissingConstraints" />
```

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

Java Code:

```
package com.example.calci;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    private EditText etn1;
    private EditText etn2;
    private TextView tvResult;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EditText textView = findViewById(R.id.etn1);
        textView.setTextColor(Color.WHITE);
        setContentView(R.layout.activity_main);
        etn1 = (EditText) findViewById(R.id.etn1);
        etn2 = (EditText) findViewById(R.id.etn2);
        tvResult = (TextView) findViewById(R.id.tvResult);
    }

    public void btnsum(View view) {
        int n1 = Integer.parseInt(etn1.getText().toString());
        int n2 = Integer.parseInt(etn2.getText().toString());
        int sum = n1 + n2;
        tvResult.setText(String.valueOf(sum));
    }

    public void btnsub(View view) {
        int n1 = Integer.parseInt(etn1.getText().toString());
        int n2 = Integer.parseInt(etn2.getText().toString());
        int sum = n1 - n2;
        tvResult.setText(String.valueOf(sum));
    }

    public void btnmulti(View view) {
        int n1 = Integer.parseInt(etn1.getText().toString());
        int n2 = Integer.parseInt(etn2.getText().toString());
        int sum = n1 * n2;
        tvResult.setText(String.valueOf(sum));
    }

    public void btndiv(View view) {
        int n1 = Integer.parseInt(etn1.getText().toString());
        int n2 = Integer.parseInt(etn2.getText().toString());
```

```
float sum = (float)n1 / n2;  
tvResult.setText(String.valueOf(sum));  
}  
}
```

App UI:


