## **ANSHIKA SHASHWAT**

## BCA - 5 'C' 1921027

## 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/textView2"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="48dp"
android:text="@string/calculator"
                                    android:textSize="28sp"
app:layout constraintEnd toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
   android:id="@+id/edtNumber1"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout_marginTop="64dp"
    android:ems="10"
                         android:hint="@string/first number"
android:inputType="numberDecimal"
android:textAlignment="center"
app:layout_constraintEnd_toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView2"/>
  <EditText
    android:id="@+id/edtNumber2"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginTop="32dp"
```

```
android:ems="10"
   android:hint="@string/second number"
android:inputType="numberDecimal"
android:textAlignment="center"
    app:layout constraintEnd toEndOf="@+id/edtNumber1"
app:layout_constraintStart_toStartOf="@+id/edtNumber1"
   app:layout_constraintTop_toBottomOf="@+id/edtNumber1" />
             android:id="@+id/add"
  <Button
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="32dp"
android:text="@string/add"
android:textSize="24sp"
android:onClick="add"
    app:layout constraintEnd toStartOf="@+id/subtract"
app:layout_constraintHorizontal_chainStyle="spread_inside"
app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@id/edtNumber2"/>
  <Button
    android:id="@+id/subtract"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="32dp"
android:text="@string/sub"
android:textSize="24sp"
                          android:onClick="subtract"
    app:layout_constraintEnd_toStartOf="@+id/multiply"
app:layout_constraintStart_toEndOf="@+id/add"
    app:layout constraintTop toBottomOf="@id/edtNumber2"/>
  <Button
    android:id="@+id/multiply"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_marginTop="32dp"
android:text="@string/mul"
                              android:onClick="multiply"
android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/divide"
app:layout_constraintStart_toEndOf="@+id/subtract"
    app:layout_constraintTop_toBottomOf="@id/edtNumber2"/>
  <Button
```

```
android:id="@+id/divide"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout_marginTop="32dp"
android:text="@string/div"
android:textSize="24sp"
                           android:onClick="divide"
    app:layout constraintEnd toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/multiply"
    app:layout constraintTop toBottomOf="@id/edtNumber2"/>
  <TextView
    android:id="@+id/txtResultHeader"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout marginTop="96dp"
android:text="@string/result"
                                android:textSize="24sp"
    app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout constraintStart toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/multiply" />
  <TextView
   android:id="@+id/txtResult"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_marginTop="20dp"
                                     android:textSize="22sp"
    app:layout constraintEnd toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtResultHeader" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## MainActivity.java

package com.example.myapplicationadd;

import android.os.Bundle; import
android.view.View; import
android.widget.EditText;
import android.widget.TextView;

```
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private EditText edtNumber1;
private EditText edtNumber2;
  private TextView result;
 private float number1;
private float number2;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    edtNumber1 = findViewById(R.id.edtNumber1);
edtNumber2 = findViewById(R.id.edtNumber2);
    result = findViewById(R.id.txtResult);
  }
  public void add(View view) {
    number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
number2 = Float.parseFloat(edtNumber2.getText().toString().trim());
    result.setText(String.valueOf((number1 + number2)));
  }
  public void subtract(View view) {
    number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
number2 = Float.parseFloat(edtNumber2.getText().toString().trim());
    result.setText(String.valueOf((number1 - number2)));
  }
  public void multiply(View view) {
    number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
number2 = Float.parseFloat(edtNumber2.getText().toString().trim());
    result.setText(String.valueOf((number1 * number2)));
  }
  public void divide(View view) {
```

```
number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
number2 = Float.parseFloat(edtNumber2.getText().toString().trim());
result.setText(String.valueOf((number1 / number2)));
}}
```

