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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:orientation="vertical"

    android:padding="20dp"

    android:gravity="center">

    <EditText

        android:id="@+id/num1"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:hint="Enter First Number"

        android:inputType="numberDecimal"

        android:padding="10dp"/>

    <EditText

        android:id="@+id/num2"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:hint="Enter Second Number"

        android:inputType="numberDecimal"

        android:padding="10dp"/>

    <LinearLayout
```

```xml
    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:orientation="horizontal"

    android:gravity="center">

    <Button

        android:id="@+id/addButton"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Add"/>

    <Button

        android:id="@+id/subtractButton"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Subtract"/>

    <Button

        android:id="@+id/multiplyButton"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Multiply"/>

    <Button

        android:id="@+id/divideButton"
```

```xml
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Divide"/>

    </LinearLayout>

    <TextView

        android:id="@+id/resultText"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Result: "

        android:textSize="20sp"

        android:textStyle="bold"

        android:layout_marginTop="20dp"/>

</LinearLayout>
```

```java
package com.example.calculatorapp;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
```

```java
@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    EditText num1 = findViewById(R.id.num1);

    EditText num2 = findViewById(R.id.num2);

    Button addButton = findViewById(R.id.addButton);

    Button subtractButton = findViewById(R.id.subtractButton);

    Button multiplyButton = findViewById(R.id.multiplyButton);

    Button divideButton = findViewById(R.id.divideButton);

    TextView resultText = findViewById(R.id.resultText);

    View.OnClickListener operationListener = new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            String input1 = num1.getText().toString();

            String input2 = num2.getText().toString();

            if (input1.isEmpty() || input2.isEmpty()) {

                Toast.makeText(MainActivity.this, "Please enter both numbers",
Toast.LENGTH_SHORT).show();

                return;

            }

            double number1 = Double.parseDouble(input1);
```

```java
double number2 = Double.parseDouble(input2);

double result = 0;

switch (v.getId()) {

    case R.id.addButton:

        result = number1 + number2;

        break;

    case R.id.subtractButton:

        result = number1 - number2;

        break;

    case R.id.multiplyButton:

        result = number1 * number2;

        break;

    case R.id.divideButton:

        if (number2 == 0) {

            Toast.makeText(MainActivity.this, "Cannot divide by zero",
Toast.LENGTH_SHORT).show();

            return;

        }

        result = number1 / number2;

        break;

}

resultText.setText("Result: " + result);
```

```java
        }
    };

    addButton.setOnClickListener(operationListener);

    subtractButton.setOnClickListener(operationListener);

    multiplyButton.setOnClickListener(operationListener);

    divideButton.setOnClickListener(operationListener);
 }
}
```