Activitymain.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:paddingLeft="16dp"  
 android:paddingTop="16dp"  
 android:paddingRight="16dp"  
 android:paddingBottom="16dp"  
 tools:context=".MainActivity"**>  
  
 <**EditText  
 android:id="@+id/operand1EditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Operand 1"  
 android:inputType="numberDecimal"  
 android:layout\_marginTop="16dp"**/>  
  
 <**EditText  
 android:id="@+id/operand2EditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Operand 2"  
 android:inputType="numberDecimal"  
 android:layout\_below="@id/operand1EditText"  
 android:layout\_marginTop="8dp"**/>  
  
 <**TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/operand2EditText"  
 android:layout\_marginTop="16dp"  
 android:text=""  
 android:textSize="24sp"  
 android:textAlignment="center"**/>  
  
 <**Button  
 android:id="@+id/additionButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Addition"  
 android:layout\_below="@id/resultTextView"  
 android:layout\_marginTop="16dp"  
 android:onClick="performAddition"**/>  
  
 <**Button  
 android:id="@+id/subtractionButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Subtraction"  
 android:layout\_below="@id/additionButton"  
 android:layout\_marginTop="8dp"  
 android:onClick="performSubtraction"**/>  
  
 <**Button  
 android:id="@+id/multiplicationButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Multiplication"  
 android:layout\_below="@id/subtractionButton"  
 android:layout\_marginTop="8dp"  
 android:onClick="performMultiplication"**/>  
  
 <**Button  
 android:id="@+id/divisionButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Division"  
 android:layout\_below="@id/multiplicationButton"  
 android:layout\_marginTop="8dp"  
 android:onClick="performDivision"**/>  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.test;  
  
**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 **operand1EditText**, **operand2EditText**;  
 **private** TextView **resultTextView**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 **operand1EditText** = findViewById(R.id.*operand1EditText*);  
 **operand2EditText** = findViewById(R.id.*operand2EditText*);  
 **resultTextView** = findViewById(R.id.*resultTextView*);  
 }  
  
 **public void** performAddition(View view) {  
 performOperation(**"+"**);  
 }  
  
 **public void** performSubtraction(View view) {  
 performOperation(**"-"**);  
 }  
  
 **public void** performMultiplication(View view) {  
 performOperation(**"\*"**);  
 }  
  
 **public void** performDivision(View view) {  
 performOperation(**"/"**);  
 }  
  
 **private void** performOperation(String operator) {  
 **try** {  
 **double** operand1 = Double.*parseDouble*(**operand1EditText**.getText().toString());  
 **double** operand2 = Double.*parseDouble*(**operand2EditText**.getText().toString());  
  
 **double** result = 0;  
  
 **switch** (operator) {  
 **case "+"**:  
 result = operand1 + operand2;  
 **break**;  
 **case "-"**:  
 result = operand1 - operand2;  
 **break**;  
 **case "\*"**:  
 result = operand1 \* operand2;  
 **break**;  
 **case "/"**:  
 **if** (operand2 != 0) {  
 result = operand1 / operand2;  
 } **else** {  
 **resultTextView**.setText(**"Cannot divide by zero"**);  
 **return**;  
 }  
 **break**;  
 }  
  
 **resultTextView**.setText(String.*valueOf*(result));  
 } **catch** (NumberFormatException e) {  
 **resultTextView**.setText(**"Invalid input. Please enter valid numbers."**);  
 }  
 }  
}