Main Activity.java

package com.example.calculator;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
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 {  
  
 private EditText number1, number2;  
 private TextView result;  
 private Button buttonAdd, buttonSubtract, buttonMultiply, buttonDivide;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 number1 = findViewById(R.id.*number1*);  
 number2 = findViewById(R.id.*number2*);  
 result = findViewById(R.id.*result*);  
  
 buttonAdd = findViewById(R.id.*buttonAdd*);  
 buttonSubtract = findViewById(R.id.*buttonSubtract*);  
 buttonMultiply = findViewById(R.id.*buttonMultiply*);  
 buttonDivide = findViewById(R.id.*buttonDivide*);  
  
 buttonAdd.setOnClickListener(view -> performOperation("+"));  
 buttonSubtract.setOnClickListener(view -> performOperation("-"));  
 buttonMultiply.setOnClickListener(view -> performOperation("\*"));  
 buttonDivide.setOnClickListener(view -> performOperation("/"));  
 }  
  
 private void performOperation(String operator) {  
 String num1 = number1.getText().toString();  
 String num2 = number2.getText().toString();  
  
 if (num1.isEmpty() || num2.isEmpty()) {  
 Toast.*makeText*(MainActivity.this, "Please enter both numbers", Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
  
 double number1 = Double.*parseDouble*(num1);  
 double number2 = Double.*parseDouble*(num2);  
 double operationResult = 0.0;  
  
 switch (operator) {  
 case "+":  
 operationResult = number1 + number2;  
 break;  
 case "-":  
 operationResult = number1 - number2;  
 break;  
 case "\*":  
 operationResult = number1 \* number2;  
 break;  
 case "/":  
 if (number2 != 0) {  
 operationResult = number1 / number2;  
 } else {  
 result.setText("Cannot divide by zero");  
 return;  
 }  
 break;  
 }  
  
 result.setText("Result: " + operationResult);  
 }  
}

Activity\_main.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="16dp">  
  
 <EditText  
 android:id="@+id/number1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter first number"  
 android:inputType="numberDecimal"  
 android:textSize="18sp"  
 android:layout\_marginBottom="16dp" />  
  
 <EditText  
 android:id="@+id/number2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter second number"  
 android:inputType="numberDecimal"  
 android:textSize="18sp"  
 android:layout\_marginBottom="16dp" />  
  
 <Button  
 android:id="@+id/buttonAdd"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Add (+)"  
 android:layout\_marginBottom="8dp" />  
  
 <Button  
 android:id="@+id/buttonSubtract"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Subtract (-)"  
 android:layout\_marginBottom="8dp" />  
  
 <Button  
 android:id="@+id/buttonMultiply"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Multiply (\*)"  
 android:layout\_marginBottom="8dp" />  
  
 <Button  
 android:id="@+id/buttonDivide"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Divide (/)"  
 android:layout\_marginBottom="16dp" />  
  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:gravity="center"  
 android:layout\_marginTop="16dp"  
 android:textColor="@android:color/holo\_blue\_dark" />  
</LinearLayout>

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