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"  
 android:gravity="center">  
  
 <!-- Input fields for numbers -->  
 <EditText  
 android:id="@+id/num1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter first number"  
 android:inputType="numberDecimal"  
 android:textSize="18sp" />  
  
 <EditText  
 android:id="@+id/num2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter second number"  
 android:inputType="numberDecimal"  
 android:textSize="18sp"  
 android:layout\_marginTop="16dp" />  
  
 <!-- Buttons for each operation -->  
 <Button  
 android:id="@+id/addButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Add"  
 android:layout\_marginTop="16dp" />  
  
 <Button  
 android:id="@+id/subtractButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Subtract"  
 android:layout\_marginTop="8dp" />  
  
 <Button  
 android:id="@+id/multiplyButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Multiply"  
 android:layout\_marginTop="8dp" />  
  
 <Button  
 android:id="@+id/divideButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Divide"  
 android:layout\_marginTop="8dp" />  
  
 <!-- TextView to display the result -->  
 <TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Result will appear here"  
 android:textSize="18sp"  
 android:layout\_marginTop="16dp" />  
</LinearLayout>

MAIN

package com.example.calculator;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText num1EditText, num2EditText;  
 Button addButton, subtractButton, multiplyButton, divideButton;  
 TextView resultTextView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Initialize views  
 num1EditText = findViewById(R.id.*num1*);  
 num2EditText = findViewById(R.id.*num2*);  
 addButton = findViewById(R.id.*addButton*);  
 subtractButton = findViewById(R.id.*subtractButton*);  
 multiplyButton = findViewById(R.id.*multiplyButton*);  
 divideButton = findViewById(R.id.*divideButton*);  
 resultTextView = findViewById(R.id.*resultTextView*);  
  
 // Set onClickListeners for each operation button  
 addButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 performOperation("add");  
 }  
 });  
  
 subtractButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 performOperation("subtract");  
 }  
 });  
  
 multiplyButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 performOperation("multiply");  
 }  
 });  
  
 divideButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 performOperation("divide");  
 }  
 });  
 }  
  
 // Method to perform the selected operation  
 private void performOperation(String operation) {  
 // Get the numbers from EditText  
 String num1Str = num1EditText.getText().toString();  
 String num2Str = num2EditText.getText().toString();  
  
 // Check if the input fields are empty  
 if (num1Str.isEmpty() || num2Str.isEmpty()) {  
 resultTextView.setText("Please enter both numbers.");  
 return;  
 }  
  
 // Convert the numbers to double  
 double num1 = Double.*parseDouble*(num1Str);  
 double num2 = Double.*parseDouble*(num2Str);  
 double result = 0;  
  
 // Perform the corresponding operation  
 switch (operation) {  
 case "add":  
 result = num1 + num2;  
 break;  
 case "subtract":  
 result = num1 - num2;  
 break;  
 case "multiply":  
 result = num1 \* num2;  
 break;  
 case "divide":  
 if (num2 != 0) {  
 result = num1 / num2;  
 } else {  
 resultTextView.setText("Cannot divide by zero.");  
 return;  
 }  
 break;  
 }  
  
 // Display the result  
 resultTextView.setText("Result: " + result);  
 }  
}