**XML File**<?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 -->  
 <EditText  
 android:id="@+id/first\_number"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="First Number"  
 android:inputType="numberDecimal"  
 android:layout\_marginBottom="8dp" />  
  
 <EditText  
 android:id="@+id/second\_number"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Second Number"  
 android:inputType="numberDecimal"  
 android:layout\_marginBottom="16dp" />  
  
 <!-- Buttons -->  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:gravity="center"  
 android:layout\_marginBottom="16dp">  
  
 <Button  
 android:id="@+id/add\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="+" />  
  
 <Button  
 android:id="@+id/sub\_button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="-"  
 android:layout\_marginStart="8dp" />  
  
 <Button  
 android:id="@+id/multiply\_button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="×"  
 android:layout\_marginStart="8dp" />  
  
 <Button  
 android:id="@+id/divide\_button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="÷"  
 android:layout\_marginStart="8dp" />  
 </LinearLayout>  
  
 <!-- Result Display -->  
 <TextView  
 android:id="@+id/result\_text"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Result will appear here"  
 android:textSize="16sp"  
 android:gravity="center" />  
</LinearLayout>

**Main.java**

package com.example.practice1;  
  
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 {  
  
 private EditText firstNumber, secondNumber;  
 private TextView resultText;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Initialize UI components  
 firstNumber = findViewById(R.id.*first\_number*);  
 secondNumber = findViewById(R.id.*second\_number*);  
 resultText = findViewById(R.id.*result\_text*);  
  
 // Set button click listeners  
 findViewById(R.id.*add\_button*).setOnClickListener(this::onOperationClick);  
 findViewById(R.id.*sub\_button2*).setOnClickListener(this::onOperationClick);  
 findViewById(R.id.*multiply\_button3*).setOnClickListener(this::onOperationClick);  
 findViewById(R.id.*divide\_button4*).setOnClickListener(this::onOperationClick);  
 }  
  
 private void onOperationClick(View view) {  
 try {  
 float num1 = Float.*parseFloat*(firstNumber.getText().toString());  
 float num2 = Float.*parseFloat*(secondNumber.getText().toString());  
 float result;  
  
 // Determine the operation based on the clicked button's ID  
 if (view.getId() == R.id.*add\_button*) {  
 result = num1 + num2;  
 } else if (view.getId() == R.id.*sub\_button2*) {  
 result = num1 - num2;  
 } else if (view.getId() == R.id.*multiply\_button3*) {  
 result = num1 \* num2;  
 } else if (view.getId() == R.id.*divide\_button4*) {  
 if (num2 == 0) {  
 resultText.setText("Cannot divide by zero");  
 return;  
 }  
 result = num1 / num2;  
 } else {  
 result = 0;  
 }  
  
 resultText.setText("Result: " + result);  
 } catch (NumberFormatException e) {  
 resultText.setText("Enter valid numbers");  
 }  
 }  
}