package com.example.simplecalculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

EditText et1, et2;

Button plus, minus, multiply, divide, clear, equal;

TextView result;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

et1 = findViewById(R.id.num1);

et2 = findViewById(R.id.num2);

plus = findViewById(R.id.plus);

minus = findViewById(R.id.minus);

multiply = findViewById(R.id.star);

divide = findViewById(R.id.slash);

clear = findViewById(R.id.C);

equal = findViewById(R.id.equal);

result = findViewById(R.id.res);

plus.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

calculate('+');

}

});

minus.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

calculate('-');

}

});

multiply.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

calculate('\*');

}

});

divide.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

calculate('/');

}

});

clear.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

et1.setText("");

et2.setText("");

result.setText("Result: ");

}

});

equal.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

calculate('=');

}

});

}

private void calculate(char operator) {

String num1Str = et1.getText().toString();

String num2Str = et2.getText().toString();

if (num1Str.isEmpty() || num2Str.isEmpty()) {

result.setText("Result: Please enter both numbers.");

return;

}

double num1 = Double.parseDouble(num1Str);

double num2 = Double.parseDouble(num2Str);

double resultValue = 0.0;

switch (operator) {

case '+':

resultValue = num1 + num2;

break;

case '-':

resultValue = num1 - num2;

break;

case '\*':

resultValue = num1 \* num2;

break;

case '/':

if (num2 == 0) {

result.setText("Result: Cannot divide by zero.");

return;

}

resultValue = num1 / num2;

break;

case '=':

break;

}

result.setText("Result: " + resultValue);

}

}