import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.content.ContextCompat;

import com.example.yourprojectname.databinding.ActivityMainBinding;

import net.objecthunter.exp4j.ExpressionBuilder;

import java.text.DecimalFormat;

public class MainActivity extends AppCompatActivity {

private ActivityMainBinding binding;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

binding = ActivityMainBinding.inflate(getLayoutInflater());

setContentView(binding.getRoot());

binding.buttonClear.setOnClickListener(v -> {

binding.input.setText("");

binding.output.setText("");

});

binding.buttonBracketLeft.setOnClickListener(v -> addToInputText("("));

binding.buttonBracketRight.setOnClickListener(v -> addToInputText(")"));

binding.button0.setOnClickListener(v -> addToInputText("0"));

binding.button1.setOnClickListener(v -> addToInputText("1"));

binding.button2.setOnClickListener(v -> addToInputText("2"));

binding.button3.setOnClickListener(v -> addToInputText("3"));

binding.button4.setOnClickListener(v -> addToInputText("4"));

binding.button5.setOnClickListener(v -> addToInputText("5"));

binding.button6.setOnClickListener(v -> addToInputText("6"));

binding.button7.setOnClickListener(v -> addToInputText("7"));

binding.button8.setOnClickListener(v -> addToInputText("8"));

binding.button9.setOnClickListener(v -> addToInputText("9"));

binding.buttonDot.setOnClickListener(v -> addToInputText("."));

binding.buttonDivision.setOnClickListener(v -> addToInputText("÷"));

binding.buttonMultiply.setOnClickListener(v -> addToInputText("x"));

binding.buttonSubtraction.setOnClickListener(v -> addToInputText("-"));

binding.buttonAddition.setOnClickListener(v -> addToInputText("+"));

binding.buttonEquals.setOnClickListener(v -> showResult());

binding.buttonPercent.setOnClickListener(v -> addToInputText("%"));

}

private void addToInputText(String value) {

binding.input.append(value);

}

private String getInputExpression() {

return binding.input.getText().toString();

}

private void showResult() {

try {

String expression = getInputExpression().replace("%", "/100"); // Заменяем % на соответствующее значение для деления

double result = new ExpressionBuilder(expression).build().evaluate();

binding.output.setText(new DecimalFormat("0.######").format(result));

binding.output.setTextColor(ContextCompat.getColor(this, R.color.neon\_green));

} catch (Exception e) {

binding.output.setText("Ошибка");

binding.output.setTextColor(ContextCompat.getColor(this, R.color.red));

}

}

}

<?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">

<TextView

android:id="@+id/input"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="32sp"

android:textColor="@android:color/black"

android:background="@android:color/white"

android:padding="8dp"/>

<TextView

android:id="@+id/output"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="32sp"

android:textColor="@android:color/black"

android:background="@android:color/white"

android:padding="8dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/buttonClear"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="C"/>

<Button

android:id="@+id/buttonBracketLeft"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="("/>

<Button

android:id="@+id/buttonBracketRight"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text=")"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/button7"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="7"/>

<Button

android:id="@+id/button8"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="8"/>

<Button

android:id="@+id/button9"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="9"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/button4"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="4"/>

<Button

android:id="@+id/button5"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="5"/>

<Button

android:id="@+id/button6"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="6"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"