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package com.example.yourprojectname;

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"));
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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));
    }
}

}

}

implementation ("net.objecthunter:exp4j:0.4.8")

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binding.buttonClear.setOnClickListener{ binding.input.text = " " binding.output.text = " " }
binding.buttonBracketLeft.setOnClickListener { addToInputText("(") }
binding.buttonBracketLeft.setOnClickListener { addToInputText("(") } binding.button0.setOnClickListener
{ addToInputText("0") } binding.button1.setOnClickListener { addToInputText("1") }
binding.button2.setOnClickListener { addToInputText("2") } binding.button3.setOnClickListener {
addToInputText("3") } binding.button4.setOnClickListener { addToInputText("4") }
binding.button5.setOnClickListener { addToInputText("5") } binding.button6.setOnClickListener {
addToInputText("6") } binding.button7.setOnClickListener { addToInputText("7") }
binding.button8.setOnClickListener { addToInputText("8") } binding.button9.setOnClickListener {
addToInputText("9") } binding.buttonDot.setOnClickListener { addToInputText(".") }
binding.buttonDivision.setOnClickListener { addToInputText("÷") }
binding.buttonMultiply.setOnClickListener { addToInputText("x") }
binding.buttonSubtraction.setOnClickListener { addToInputText("-") }
binding.buttonAddition.setOnClickListener { addToInputText("+") }
binding.buttonEquals.setOnClickListener { showResult() } binding.buttonPercent.setOnClickListener {
addToInputText("%") }
```