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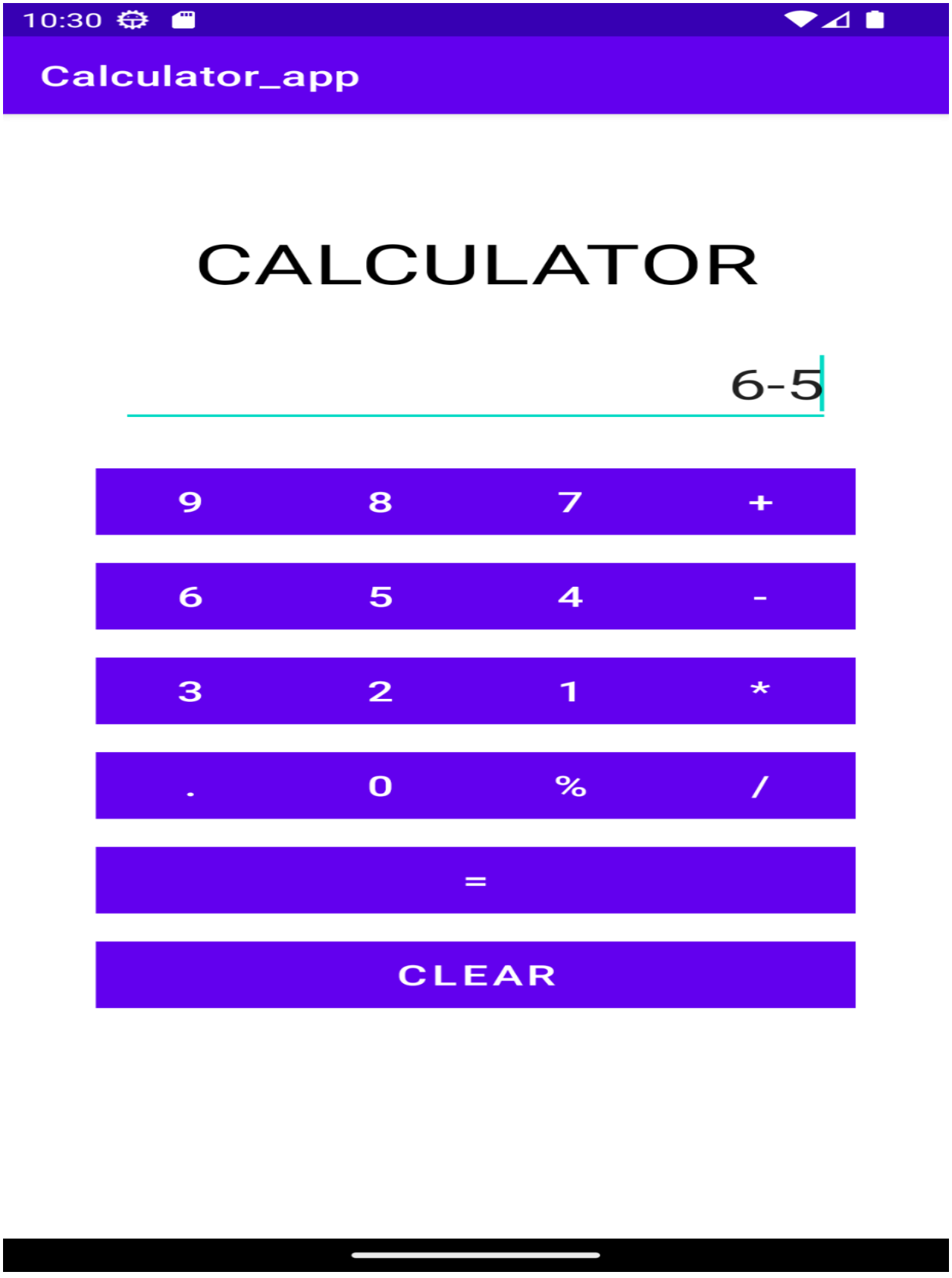
```
package com.example.calculator_app;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener{
   EditText result;
   String operatorPressed = " ";
   Button one, two, three, four, five, six, seven, eight,nine;
   Button plus, minus, multiply, division, mod, equal, clear;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       result = findViewById(R.id.res);
       one = findViewById(R.id.one) ;
       two = findViewById(R.id.two) ;
       three = findViewById(R.id.three);
       four = findViewById(R.id.four);
       five = findViewById(R.id.five) ;
       six = findViewById(R.id.six) ;
       seven = findViewById(R.id.seven);
       eight = findViewById(R.id.eight);
       nine = findViewById(R.id.nine) ;
       plus = findViewById(R.id.plus) ;
       minus = findViewById(R.id.minus);
       multiply = findViewById(R.id.multiply);
       division = findViewById(R.id.division) ;
       equal = findViewById(R.id.equal) ;
       clear = findViewById(R.id.clear);

       // Buttons
       one.setOnClickListener(this);
       two.setOnClickListener(this);
       three.setOnClickListener(this);
       four.setOnClickListener(this);
       five.setOnClickListener(this);
       six.setOnClickListener(this);
       seven.setOnClickListener(this);
       eight.setOnClickListener(this);
       nine.setOnClickListener(this);
```

```
// operators
        plus.setOnClickListener(this);
        minus.setOnClickListener(this);
        multiply.setOnClickListener(this);
        division.setOnClickListener(this);
        equal.setOnClickListener(this);
        clear.setOnClickListener(this);

    }

    @Override
    public void onClick(View view) {
        double finalResult = 0.0;
        switch(view.getId())
        {
            case R.id.one: result.append("1");
                break;
            case R.id.two: result.append("2");
                break;
            case R.id.three: result.append("3");
                break;
            case R.id.four: result.append("4");
                break;
            case R.id.five: result.append("5");
                break;
            case R.id.six: result.append("6");
                break;
            case R.id.seven: result.append("7");
                break;
            case R.id.eight: result.append("8");
                break;
            case R.id.nine: result.append("9");
                break;
            case R.id.plus: result.append("+");
                operatorPressed="+";
                break;
            case R.id.minus: result.append("-");
                operatorPressed="-";
                break;
            case R.id.multiply: result.append("*");
                operatorPressed="*";
                break;
            case R.id.division:v: result.append("/");
                operatorPressed="/";
                break;
            case R.id.equal:als: finalResult=

evaluateExpression(result.getText().toString(),operatorPressed);
                result.setText(String.valueOf(finalResult));
```

```
                break;
            default:return;
        }
    }
    private double evaluateExpression(String res, String operatorPressed)
    {
        String[] tokens = res.split("\\+|-|\\*|\\/"); // split for +, -, *,/
operator

        double firstOperand = Double.parseDouble(tokens[0]); //convert string to
double
        double secondOperand = Double.parseDouble(tokens[1]);
        switch(operatorPressed)
        {
            case "+": return firstOperand + secondOperand;
            case "-": return firstOperand - secondOperand;
            case "*": return firstOperand * secondOperand;
            case "/": return firstOperand / secondOperand;
            default: return 0;
        }
    }
}
```


10:30
Calculator_app
CALCULATOR
6-5
9
8
7
+
6
5
4
-
3
2
1
*
.
0
%
/
=
CLEAR