```
package com.example.thapar_calci;
import
androidx.appcompat.app.AppCompatActivi
ty;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import
com.google.android.material.button.Materi
alButton;
import org.mozilla.javascript.Context;
import org.mozilla.javascript.Scriptable;
public class MainActivity extends
AppCompatActivity implements
View.OnClickListener
  TextView resultTv, solutionTv;
```

```
Material Button
buttonC,buttonBrackOpen,buttonBrackClos
e;
 Material Button
buttonDivide,buttonMultiply,buttonPlus,but
tonMinus,buttonEquals;
 Material Button
button7,button8,button9,button1,button2,b
utton3,button4,button5,button6,button0;
 MaterialButton buttonDot,buttonAC;
  @Override
  protected void onCreate(Bundle
savedInstanceState) {
    super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
    resultTv =
findViewById(R.id.result_tv);
    solutionTv =
findViewById(R.id.solution_tv);
```

```
assignId(buttonC,R.id.button_C);
    assignId(button0,R.id.button_0);
    assignId(button1,R.id.button_1);
    assignId(button2,R.id.button_2);
    assignId(button3,R.id.button_3);
    assignId(button4,R.id.button_4);
    assignId(button5,R.id.button_5);
    assignId(button6, R.id.button_6);
    assignId(button7,R.id.button_7);
    assignId(button8,R.id.button_8);
    assignId(button9,R.id.button_9);
assignId(buttonBrackClose,R.id.button_clo
sed_bracket);
assignId(buttonBrackOpen,R.id.button_op
en_bracket);
    assignId(buttonAC,R.id.button_ac);
    assignId(buttonDot,R.id.button_dot);
```

assignId(buttonDivide, R.id.button_divide);

```
assignId(buttonMinus,R.id.button_minus);
assignId(buttonMultiply,R.id.button_multip
ly);
    assignId(buttonPlus,R.id.button_plus);
assignId(buttonEquals,R.id.button_equals)
    void assignId(MaterialButton btn,int
id){
    btn=findViewById(id);
    btn.setOnClickListener(this);
  @Override
  public void onClick(View view) {
    Material Button
button=(MaterialButton) view;
```

```
String
buttonText=button.getText().toString();
    String
dataToCalculate=solutionTv.getText().toStr
ing();
    if(buttonText.equals("AC"))
       solutionTv.setText("");
       resultTv.setText("0");
       return;
    }
    if (buttonText.equals("=")) {
solutionTv.setText(resultTv.getText());
       return;
    if(buttonText.equals("C")) {
       dataToCalculate =
dataToCalculate.substring(0,
dataToCalculate.length() - 1);
    }else
```

```
dataToCalculate=dataToCalculate+buttonT
ext;
    solutionTv.setText(dataToCalculate);
    String finalResult =
getResult(dataToCalculate);
    if(!finalResult.equals("Err")){
      resultTv.setText(finalResult);
  String getResult(String data)
    try{
      Context context = Context.enter();
      context.setOptimizationLevel(-1);
      Scriptable scriptable
=context.initStandardObjects();
      String finalResult =
context.evaluateString(scriptable,data,"Jav
```

```
ascript",1,null).toString();
    if(finalResult.endsWith(".0")){
        finalResult =
finalResult.replace(".0","");
    }
    return finalResult;
    }catch (Exception e){
        return "Err";
    }
}
```