package com.example.santacalculator;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import org.w3c.dom.Text;  
  
import javax.script.ScriptEngine;  
import javax.script.ScriptEngineManager;  
import javax.script.ScriptException;  
  
public class MainActivity extends AppCompatActivity {  
  
  
 TextView workingTV,resultsTV;  
  
 String Workings = "";  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
  
  
  
 workingTV = (TextView) findViewById(R.id.workingtextview);  
 resultsTV = (TextView) findViewById(R.id.resulttextview);  
  
 }  
  
  
 private void setWorkings(String givenvalue)  
 {  
 Workings = Workings + givenvalue;  
 workingTV.setText(Workings);  
 }  
  
 public void EqualToOnClick(View view) {  
 Double result = null;  
 ScriptEngine engine = new ScriptEngineManager().getEngineByName("rhino");  
  
 try {  
 result = (double)engine.eval(Workings);  
 }  
 catch (ScriptException e) {  
 Toast.makeText(this, "Invalid Input", Toast.LENGTH\_SHORT).show();  
 }  
  
 if(result!=null)  
 resultsTV.setText(String.valueOf(result.doubleValue()));  
  
 }  
  
 public void clearOnClick(View view) {  
 workingTV.setText("");  
 Workings="";  
 resultsTV.setText("");  
  
 }  
  
 public void BracketOnClick(View view) {  
  
 }  
  
 public void PowerOfOnClick(View view) {  
 setWorkings("^");  
 }  
  
 public void DivideOnClick(View view) {  
 setWorkings("/");  
 }  
  
 public void SevenOnClick(View view) {  
 setWorkings("7");  
 }  
  
 public void EightOnClick(View view) {  
 setWorkings("8");  
 }  
  
 public void nineOnClick(View view) {  
 setWorkings("9");  
 }  
  
 public void MultiplyOnClick(View view) {  
 setWorkings("\*");  
 }  
  
 public void fourOnClick(View view) {  
 setWorkings("4");  
 }  
  
 public void fiveOnClick(View view) {  
 setWorkings("5");  
 }  
  
 public void sixOnClick(View view) {  
 setWorkings("6");  
 }  
  
 public void SubtractOnClick(View view) {  
 setWorkings("-");  
 }  
  
 public void OneOnClick(View view) {  
 setWorkings("1");  
 }  
  
 public void ThreeOnClick(View view) {  
 setWorkings("3");  
 }  
  
 public void TwoOnClick(View view) {  
 setWorkings("2");  
 }  
  
 public void AdditionOnClick(View view) {  
 setWorkings("+");  
 }  
  
 public void DecimalOnClick(View view) {  
 setWorkings(".");  
 }  
  
 public void ZeroOnClick(View view) {  
 setWorkings("0");  
 }  
  
  
  
}