Basic calculator -Controller code

Madhuri.c

1nt19is077

7th c

package com.example.madhuricalci;

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 {

Button one,two,three,four,five,six,seven,eight,nine,zero;

Button plus,minus,division,mod,equals,clear,dot,multiply;

EditText res;

String operatorpressed;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

res=findViewById(R.id.*result*);

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*);

zero=findViewById(R.id.*zero*);

plus=findViewById(R.id.*plus*);

minus=findViewById(R.id.*minus*);

multiply=findViewById(R.id.*multiply*);

division=findViewById(R.id.*division*);

clear=findViewById(R.id.*clr*);

equals=findViewById(R.id.*equals*);

mod=findViewById(R.id.*mod*);

dot=findViewById(R.id.*mod*);

res.setOnClickListener(this);

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);

zero.setOnClickListener(this);

*//operators*

plus.setOnClickListener(this);

minus.setOnClickListener(this);

division.setOnClickListener(this);

mod.setOnClickListener(this);

multiply.setOnClickListener(this);

equals.setOnClickListener(this);

clear.setOnClickListener(this);

dot.setOnClickListener(this);

}

@Override

public void onClick(View view) {

double finalres=0;

switch (view.getId())

{

case R.id.*one* : res.append("1");

break;

case R.id.*two* : res.append("2");

break;

case R.id.*three*: res.append("3");

break;

case R.id.*four* : res.append("4");

break;

case R.id.*five* : res.append("5");

break;

case R.id.*six* : res.append("6");

break;

case R.id.*seven* : res.append("7");

break;

case R.id.*eight* : res.append("8");

break;

case R.id.*nine*: res.append("9");

break;

case R.id.*zero* : res.append("0");

break;

case R.id.*plus* : res.append("+");

operatorpressed="+";

break;

case R.id.*minus* : res.append("-");

operatorpressed="-";

break;

case R.id.*multiply* : res.append("\*");

operatorpressed="\*";

break;

case R.id.*division* : res.append("/");

operatorpressed="/";

break;

case R.id.*clr*: res.setText(" ");

break;

case R.id.*dot* : res.append(".");

break;

case R.id.*mod* : res.append("%");

operatorpressed="%";

break;

case R.id.*equals*: finalres=compute(res.getText().toString(),operatorpressed);

res.setText(String.*valueOf*(finalres));

break;

default:return;

}

}

private double compute(String toString, String operatorpressed) {

String[] tokens=toString.split("\\+|-|\\\*|\\/|%");

double firstoperand=Double.*parseDouble*(tokens[0]);

double secondoperand=Double.*parseDouble*(tokens[1]);

switch (operatorpressed)

{

case "+" : return firstoperand+secondoperand;

case "-" : return firstoperand-secondoperand;

case "\*" : return firstoperand\*secondoperand;

case "/" : return firstoperand/secondoperand;

case "%" : return firstoperand%secondoperand;

default: return 0;

}

}

}

OUTPUT



