**Name: Varsha JJ**

**Roll No: 48**

**Batch: RMCA-B**

**Date: 09/06/22**

**Experiment No.: 28**

**Aim**

Implement a simple calculator using AWT components.

**PROCEDURE**

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

class Calculator extends Frame implements ActionListener

{

Label lb1,lb2,lb3;

TextField txt1,txt2,txt3;

Button btn1,btn2,btn3,btn4,btn5,btn6,btn7;

public Calculator()

{

lb1 = new Label("Value 1");

lb2 = new Label("Value 2");

lb3 = new Label("Result");

txt1 = new TextField(10);

txt2 = new TextField(10);

txt3 = new TextField(10);

btn1 = new Button("Add");

btn2 = new Button("Sub");

btn3 = new Button("Mult");

btn4 = new Button("Div");

btn5 = new Button("Mod");

btn6 = new Button("Reset");

btn7 = new Button("Close");

add(lb1);

add(txt1);

add(lb2);

add(txt2);

add(lb3);

add(txt3);

add(btn1);

add(btn2);

add(btn3);

add(btn4);

add(btn5);

add(btn6);

add(btn7);

setSize(200,200);

setTitle("Calculator");

setLayout(new FlowLayout());

btn1.addActionListener(this);

btn2.addActionListener(this);

btn3.addActionListener(this);

btn4.addActionListener(this);

btn5.addActionListener(this);

btn6.addActionListener(this);

btn7.addActionListener(this);

}

public void actionPerformed(ActionEvent ae) {

double a=0,b=0,c=0;

try

{

a = Double.parseDouble(txt1.getText());

}

catch (NumberFormatException e) {

txt1.setText("Invalid input");

}

try

{

b = Double.parseDouble(txt2.getText());

}

catch (NumberFormatException e) {

txt2.setText("Invalid input");

}

if(ae.getSource()==btn1)

{

c = a + b;

txt3.setText(String.valueOf(c));

}

if(ae.getSource()==btn2)

{

c = a - b;

txt3.setText(String.valueOf(c));

}

if(ae.getSource()==btn3)

{

c = a \* b;

txt3.setText(String.valueOf(c));

}

if(ae.getSource()==btn4)

{

c = a / b;

txt3.setText(String.valueOf(c));

}

if(ae.getSource()==btn5)

{

c = a % b;

txt3.setText(String.valueOf(c));

}

if(ae.getSource()==btn6)

{

txt1.setText("0");

txt2.setText("0");

txt3.setText("0");

}

if(ae.getSource()==btn7)

{

System.exit(0);

}

}

public static void main(String[] args)

{

Calculator calc = new Calculator();

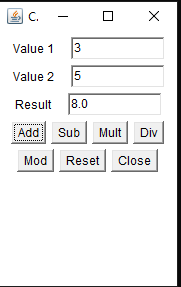
calc.setVisible(true);

calc.setLocation(300,300);

}

}

**OUTPUT**

****