**Name: Jesnamol Thomas**

**Roll No:6**

**Batch:B**

**Date:07/06/22**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: CO5-5**

**Aim**

Implement a simple calculator using AWT components.

**PROCEDURE**

import java.awt.\*;

import java.awt.event.\*;

class MyCalculator extends Frame implements ActionListener

{

Label l1,l2,l3;

TextField t1,t2,t3;

Button b1,b2,b3,b4,b5,b6;

public MyCalculator()

{

l1 = new Label("Number1");

l2 = new Label("Number2");

l3 = new Label("Result");

t1 = new TextField(10);

t2 = new TextField(10);

t3 = new TextField(10);

b1 = new Button("+");

b2 = new Button("-");

b3 = new Button("\*");

b4 = new Button("/");

b5 = new Button("Reset");

b6 = new Button("Close");

add(l1);

add(t1);

add(l2);

add(t2);

add(l3);

add(t3);

add(b1);

add(b2);

add(b3);

add(b4);

add(b5);

add(b6);

setSize(200,200);

setLayout(new FlowLayout());

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

b5.addActionListener(this);

b6.addActionListener(this);

}

public void actionPerformed(ActionEvent ae) {

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

try

{

a = Double.parseDouble(t1.getText());

}

catch (NumberFormatException e) {

t1.setText("Invalid input");

}

try

{

b = Double.parseDouble(t2.getText());

}

catch (NumberFormatException e) {

t2.setText("Invalid input");

}

if(ae.getSource()==b1)

{

c = a + b;

t3.setText(String.valueOf(c));

}

if(ae.getSource()==b2)

{

c = a - b;

t3.setText(String.valueOf(c));

}

if(ae.getSource()==b3)

{

c = a \* b;

t3.setText(String.valueOf(c));

}

if(ae.getSource()==b4)

{

c = a / b;

t3.setText(String.valueOf(c));

}

if(ae.getSource()==b5)

{

t1.setText("0");

t2.setText("0");

t3.setText("0");

}

if(ae.getSource()==b6)

{

System.exit(0);

}

}

public static void main(String[] args)

{

MyCalculator c = new MyCalculator();

c.setVisible(true);

c.setBackground(Color.black);

c.setLocation(300,300);

}

}

**Output**

