



Programmer Name: Neha Kamalakar Nemade

Batch: L-5

Problem Statement: Arithmetic Calculator

Code→

```
package ajp_codes;

import java.awt.Frame;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.TextField;
import java.awt.Button;
import java.awt.Label;
import java.awt.event.*;

public class code2 extends Frame implements ActionListener{

    private TextField num1,num2,ans;
    private Button sum,sub,div,mul,reset;
    private Label l1,l2,l3;
    public static void main(String[] args) {
        System.out.println("Name: Neha Nemade\nRoll no: 32147\n");
        code2 obj= new code2();

    }

    public code2() {
        setTitle("ARITHMATIC CALCULATOR");
        setVisible(true);
        setSize(400,450);
        setLocation(100,100);
        setLayout(new FlowLayout(FlowLayout.CENTER,50,50));
        setBackground(Color.black);

        initialize();
        addcomponents();
        addActionListeners();
    }

    public void initialize()
    {
        l1=new Label("Input1");
        l1.setForeground(Color.white);
```



```
num1=new TextField(20);
l2=new Label("Input2");
l2.setForeground(Color.white);
num2=new TextField(20);
l3=new Label("Output");
l3.setForeground(Color.white);
ans=new TextField(20);
sum=new Button("SUM");
sub=new Button("SUB");
div=new Button("DIV");
mul=new Button("MUL");
reset=new Button("RESET");

}

public void addcomponents()
{
    add(l1);
    add(num1);
    add(l2);
    add(num2);
    add(l3);
    add(ans);
    add(sum);
    add(sub);
    add(div);
    add(mul);
    add(reset);
}

public void actionPerformed(ActionEvent e)
{
    String t1=num1.getText();
    String t2=num2.getText();

    Integer n1= Integer.parseInt(t1);
    Integer n2= Integer.parseInt(t2);
    Integer answer=0;

    Object b= e.getSource();

    if(b==sum)
    {
        answer=n1+n2;
    }
    if(b==sub)
```



```
{
    answer=n1-n2;
}
if(b==div)
{
    answer=n1/n2;
}
if(b==mul)
{
    answer=n1*n2;
}
if(b==reset)
{
    num1.setText(" ");
    num2.setText(" ");
}

ans.setText(answer.toString());
}

public void addActionListeners()
{
    sum.addActionListener(this);
    sub.addActionListener(this);
    div.addActionListener(this);
    mul.addActionListener(this);
    reset.addActionListener(this);
}

}
```



OUTPUT→

```
1 package ajp_codes;
2
3 import java.awt.Frame;
4 import java.awt.Color;
5 import java.awt.FlowLayout;
6 import java.awt.TextField;
7 import java.awt.Button;
8 import java.awt.Label;
9 import java.awt.event.*;
10
11 public class code2 extends Frame implements ActionListener{
12
13     private TextField num1,num2,ans;
14     private Button sum,sub,div,mul,reset;
15     private Label l1,l2,l3;
16     public static void main(String[] args) {
17         System.out.println("Name: Neha Nemade\nRoll no: 32147\n");
18         code2 obj= new code2();
19     }
20
21
22     public code2() {
23         setTitle("ARITHMATIC CALCULATOR");
24         setVisible(true);
25         setSize(400,450);
26         setLocation(100,100);
27         setLayout(new FlowLayout(FlowLayout.CENTER,50,50));
28         setBackground(Color.black);
29
30         initialize();
31         addcomponents();
32         addActionListeners();
33     }
34
35     public void initialize()
36     {
37         l1=new Label("Input1");
38         l1.setForeground(Color.white);
39         num1=new TextField(20);
```

