



Programmer Name: Neha Kamalakar Nemade

Batch: L-5

Problem Statement:

Write a program to create a frame using AWT.

1) Association method 2) Inheritance Method

1)Association method:

Code→

```
package ajp_codes;

import java.awt.Button;
import java.awt.Color;
import java.awt.Font;
import java.awt.Frame;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;

//Frame creation by inheritance method

class myframe
{
    // initializing using constructor
    myframe()
    {
        // creating a Frame
        Frame f = new Frame();
        //creating a button
        Button b = new Button("Click Here!!");
        b.setBackground(Color.CYAN);
        // adding button into frame
        f.add(b);
        // now frame will be visible, by default it is not visible
        f.setVisible(true);
        // frame size 600 width and 600 height
        f.setSize(600,600);
        // setting the location of Frame
        f.setLocation(100,50);
        // setting the title of Frame
        f.setTitle("MyFrame");
        f.setResizable(false);
        // f.setBackground(Color.CYAN);

        f.addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent e)
```



```
{
    f.dispose();
}
});
}
}

public class code3 {

    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");
        myframe obj=new myframe();
    }
}
```

Output:

The screenshot displays an IDE with the following code in the editor:

```
19 //creating a button
20 Button b = new Button("Click Here!!");
21 b.setBackground(Color.CYAN);
22 // adding button into frame
23 f.add(b);
24 // now frame will be visible, by default it is not visible
25 f.setVisible(true);
26 // frame size 600 width and 600 height
27 f.setSize(600,600);
28 // setting the location of Frame
29 f.setLocation(100,50);
30 // setting the title of Frame
31 f.setTitle("MyFrame");
32 f.setResizable(false);
33 // f.setBackground(Color.CYAN);
34
35 f.addWindowListener(new WindowAdapter(){
36     public void windowClosing(WindowEvent e)
37     {
38         f.dispose();
39     }
40 });
41 }
42 }
43 public class code3 {
44
45     public static void main(String[] args)
46     {
47         // TODO Auto-generated method stub
48         System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");
49         myframe obj=new myframe();
50     }
51 }
52 }
```

The output window shows the following text:

```
code3 [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (28-Apr-2022, 11:20:44 pm)
Name: Neha Kamalakar Nemade
Roll no: 32147
```

2)Inheritance method:

Code:



```
package ajp_codes;

import java.awt.*;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
//Frame creation by inheritance method
//extending Frame class to our class Myframe
class Myframe extends Frame
{
    // initializing using constructor
    Myframe()
    {
        //creating a button
        Button b = new Button("Click Here!!");
        // adding button into frame
        add(b);
        // now frame will be visible, by default it is not visible
        setVisible(true);
        // frame size 600 width and 600 height
        setSize(600,600);
        // setting the location of Frame
        setLocation(100,50);
        // setting the title of Frame
        setTitle("MyFrame");
        setResizable(false);

        this.addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent e)
            {
                dispose();
            }
        });
    }
}

public class code4
{
    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        // creating instance of Frame class
        System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");
        Myframe obj=new Myframe();
    }
}
```



OUTPUT→

```
10 setVisible(true);
19 // frame size 600 width and 600 height
20 setSize(600,600);
21 // setting the location of Frame
22 setLocation(100,50);
23 // setting the title of Frame
24 setTitle("MyFrame");
25 setResizable(false);
26
27 this.addWindowListener(new WindowAdapter(){
28     public void windowClosing(WindowEvent e)
29     {
30         dispose();
31     }
32 });
33 }
34
35 }
36 public class code4
37 {
38
39 public static void main(String[] args)
40 {
41     // TODO Auto-generated method stub
42     // creating instance of Frame class
43     System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");
44     Myframe obj=new Myframe();
45
46
47 }
48
49 }
50
51
```

MyFrame

Click Here!!

Problems @ Javadoc Declaration Console

code3 [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (28-Apr-2022, 11:29:41 pm)

Name: Neha Kamalakar Nemade

Roll no: 32147