



Programmer Name: Neha Kamalakar Nemade

Batch: L5

Problem Statement: Write a program in Java to illustrate different types of Layouts using AWT
Border Layout 2) Grid Layout

1) BorderLayout

Code :

→

```
package ajp_codes;
import java.awt.*;
public class code6 extends Frame{

    private Panel north;
    private Panel east;
    private Panel west;
    private Panel south;
    private Panel center;

    public static void main(String[] args)
    {
        System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");

        code6 Aobj= new code6();

    }
    public code6()
    {
        setTitle("Study of Border Layout class");
        setVisible(true);
        setSize(400,500);
        setLocation(100,100);
        setLayout(new BorderLayout());

        north= new Panel();
        east= new Panel();
        west= new Panel();
        south= new Panel();
        center= new Panel();

        north.setPreferredSize(new Dimension(200,120));
        east.setPreferredSize(new Dimension(150,500));
        west.setPreferredSize(new Dimension(100,500));
        south.setPreferredSize(new Dimension(200,100));

        north.setBackground(Color.cyan);
```



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

PUNE - 411043

Department of Electronics & Telecommunication

ASSESSMENT YEAR: 2021-2022

CLASS: TE VII

SUBJECT: Advanced Java Programming

Assg No: 05

Roll No: 32147

Date:

```
east.setBackground(Color.GREEN);
west.setBackground(Color.black);
south.setBackground(Color.YELLOW);
center.setBackground(Color.PINK);
```

add(**north**, BorderLayout.**NORTH**); // container class add method with component and constraints from border layout class

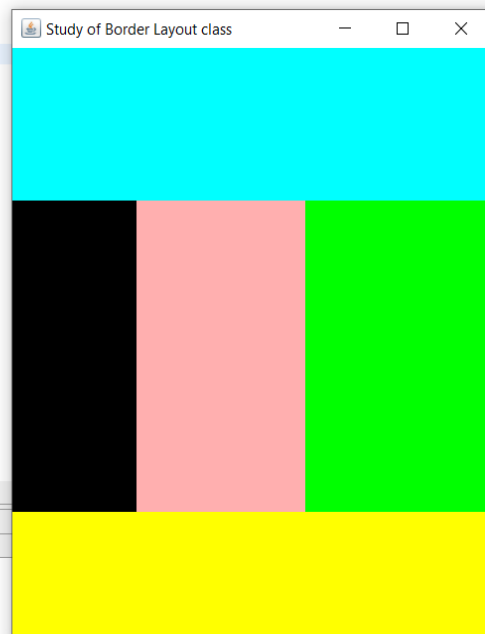
```
add(east, BorderLayout.EAST);
add(west, BorderLayout.WEST);
add(south, BorderLayout.SOUTH);
add(center, BorderLayout.CENTER);
```

```
//center.add(new Button("Okay"), BorderLayout.CENTER);
//east.add(new TextField(10), BorderLayout.EAST);
```

```
}
```

```
}
```

```
1 package ajp_codes;
2 import java.awt.*;
3 public class code6 extends Frame{
4
5     private Panel north;
6     private Panel east;
7     private Panel west;
8     private Panel south;
9     private Panel center;
10
11     public static void main(String[] args)
12     {
13         System.out.println("Name: Neha Kamalakar Nemade\nRoll no: 32147");
14
15         code6 Aobj= new code6();
16
17     }
18     public code6()
19     {
20         setTitle("Study of Border Layout class");
21         setVisible(true);
22         setSize(400,500);
23         setLocation(100,100);
24         setLayout(new BorderLayout());
25
26
27         north= new Panel();
28         east= new Panel();
29         west= new Panel();
30         south= new Panel();
31         center= new Panel();
32
33         north.setPreferredSize(new Dimension(200,120));
```



code6 [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (29-Apr-2022, 1:11:11 am)
Name: Neha Kamalakar Nemade
Roll no: 32147



2) GridLayout:

Code:

```
package ajp_codes;
```

```
import java.awt.*;
```

```
public class code7 extends Frame{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        System.out.print("\nName: Neha Kamalakar nemade\nRoll no: 32147");
```

```
        code7 Aobj= new code7();
```

```
    }
```

```
    public code7()
```

```
    {
```

```
        setTitle("Study of GridLayout class");
```

```
        setVisible(true);
```

```
        setSize(400,500);
```

```
        setLocation(100,100);
```

```
        //setLayout(new GridLayout());
```

```
        //setLayout(new GridLayout(2,3)); // row 2 and coloum 3
```

```
        //setLayout(new GridLayout(3,2)); // row 3 and coloum 2
```

```
        setLayout(new GridLayout(2,3,10,15)); // row 2, coloum 3, Hgap 10, Vgap 15
```

```
        add(new Button("1"));
```

```
        add(new Button("2"));
```

```
        add(new Button("3"));
```

```
        add(new Button("4"));
```

```
        add(new Button("5"));
```

```
        add(new Button("6"));
```

```
    }
```

```
}
```



Output :

```
3 import java.awt.*;
4 public class code7 extends Frame{
5
6
7     public static void main(String[] args)
8     {
9         System.out.print("\nName: Neha Kamalakar nemade\nRoll no: 32147");
10        code7 Aobj= new code7();
11    }
12
13    public code7()
14    {
15        setTitle("Study of GridLayout class");
16        setVisible(true);
17        setSize(400,500);
18        setLocation(100,100);
19
20        //setLayout(new GridLayout());
21
22        //setLayout(new GridLayout(2,3)); // row 2 and coloum 3
23        //setLayout(new GridLayout(3,2)); // row 3 and coloum 2
24
25        setLayout(new GridLayout(2,3,10,15)); // row 2, coloum 3, Hgap 10, Vgap 15
26        add(new Button("1"));
27        add(new Button("2"));
28        add(new Button("3"));
29        add(new Button("4"));
30        add(new Button("5"));
31        add(new Button("6"));
32    }
33 }
34 }
35 }
```

Study of GridLayout class

1 2 3

4 5 6

code7 [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (29-Apr-2022, 1:16:06 am)

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