



**SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043**

**Department of Electronics & Telecommunication Engineering (E&TCE)**

**ASSESSMENT YEAR: 2024-2025**

**CLASS: TE**

**BATCH:- N7**

**SUBJECT: Advanced JAVA Programming**

**Assignment No: 3**

**Roll No: 32402**

**Date: 29/01/2025**

**Programmer Name: Sahil Manoj Amrutkar**

**Batch: N7**

**INPUT :**

### **1) GridLayout Example**

```
package sem2_exp3;
import java.awt.*;
import java.awt.event.*;

public class GridLayoutEx {

    public static void main(String[] args) {
        Frame frame = new Frame("GridLayout Example");
        frame.setSize(400, 200);
        frame.setLayout(new GridLayout(2, 3, 9, 9));

        for (int i = 1; i <= 6; i++)
        {
            frame.add(new Button("Button " + i));
        }
        frame.setVisible(true);
        frame.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e)
            {
                frame.dispose();
            }
        });
    }
}
```

**OUTPUT :**



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## 2) FlowLayout Example

```
package sem2_exp3;

import java.awt.*;
import java.awt.event.*;
public class FlowLayoutEx {

    public static void main(String[] args) {
        Frame frame = new Frame("FlowLayout Example");
        frame.setSize(400, 200);
        frame.setLayout(new FlowLayout(FlowLayout.CENTER, 10, 20));

        for (int i = 1; i <= 5; i++) {
            frame.add(new Button("Button " + i));
        }
        frame.addWindowListener(new WindowAdapter() {
```



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```
        public void windowClosing(WindowEvent e) {  
            frame.dispose();  
        }  
    }  
};  
}
```

## OUTPUT:



## INPUT :

### 3) CardLayout Example

```
package sem2_exp3;  
  
import java.awt.*;  
import java.awt.event.*;  
  
public class CardLayoutEx {  
  
    public static void main(String[] args) {  
        Frame frame = new Frame("CardLayout Example"); frame.setSize(400,  
300);  
  
        CardLayout cardLayout = new CardLayout(); Panel cardPanel = new  
Panel(cardLayout);
```



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```
Panel panel1 = new Panel(); panel1.setBackground(Color.BLUE);  
panel1.add(new Label("Card 1"));
```

```
Panel panel2 = new Panel(); panel2.setBackground(Color.RED);  
panel2.add(new Label("Card 2"));
```

```
cardPanel.add(panel1, "Card1"); cardPanel.add(panel2, "Card2");
```

```
Button btnNext = new Button("Next Card"); btnNext.addActionListener(e  
-> cardLayout.next(cardPanel));
```

```
frame.setLayout(new BorderLayout()); frame.add(cardPanel,  
BorderLayout.CENTER); frame.add(btnNext, BorderLayout.SOUTH);
```

```
frame.setVisible(true); frame.addWindowListener(new  
WindowAdapter() {
```

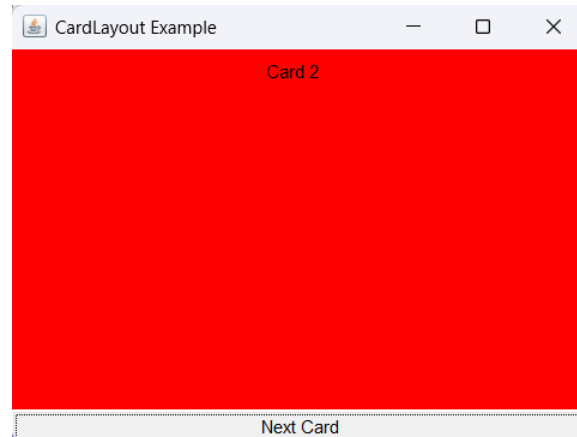
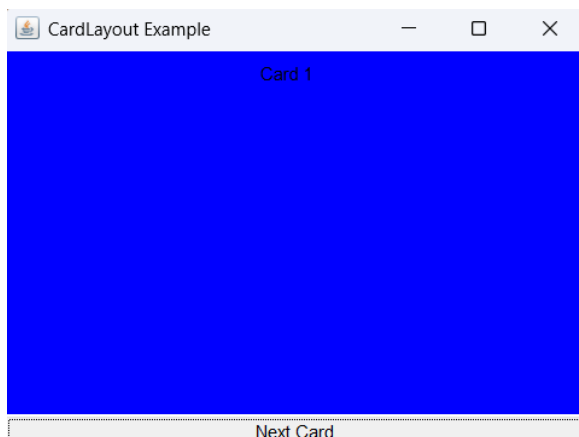
```
    public void windowClosing(WindowEvent e) {  
        frame.dispose();
```

```
    }  
});
```

```
}
```

```
}
```

## OUTPUT :





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**INPUT :**

#### **4) Layout Example**

```
package sem2_exp3;
import java.awt.*;
import java.awt.event.*;

public class BorderLayoutEx {

    public static void main(String[] args) {
        Frame frame = new Frame("BorderLayout Example"); frame.setSize(400,
300);

        frame.setLayout(new BorderLayout(10, 10));

        frame.add(new Button("North"), BorderLayout.NORTH); frame.add(new
Button("South"), BorderLayout.SOUTH); frame.add(new Button("East"), BorderLayout.EAST);
frame.add(new Button("West"), BorderLayout.WEST); frame.add(new Button("Center"),
BorderLayout.CENTER);

        frame.setVisible(true); frame.addWindowListener(new
WindowAdapter() {

            public void windowClosing(WindowEvent e) {
                frame.dispose();
            }

        });

    }

}
```



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