

**TAMOJIT DAS    A/7/C1**

## **ASSIGNMENT 10**

Q1.

Border\_Layout.java

```
import javax.swing.JButton;
```

```
import javax.swing.JFrame;
```

```
import java.awt.BorderLayout;
```

```
import javax.swing.JPanel;
```

```
class Border_Layout{
```

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

```
        JFrame frame=new JFrame();
```

```
        JPanel panel=new JPanel();
```

```
        JButton btn1=new JButton("Button 1");
```

```
        JButton btn2=new JButton("Button 2");
```

```
        JButton btn3=new JButton("Button 3");
```

```
        JButton btn4=new JButton("Button 4");
```

```
        JButton btn5=new JButton("Button 5");
```

```
        JButton btn6=new JButton("Button 6");
```

```
        panel.add(btn1, BorderLayout.WEST);
```

```
        panel.add(btn2, BorderLayout.CENTER);
```

```
        panel.add(btn3, BorderLayout.EAST);
```

```
        panel.add(btn4, BorderLayout.WEST);
```

```
        panel.add(btn5, BorderLayout.CENTER);
```

```
        panel.add(btn6, BorderLayout.EAST);
```

```
frame.add(panel);

frame.setTitle("Border_Layout");

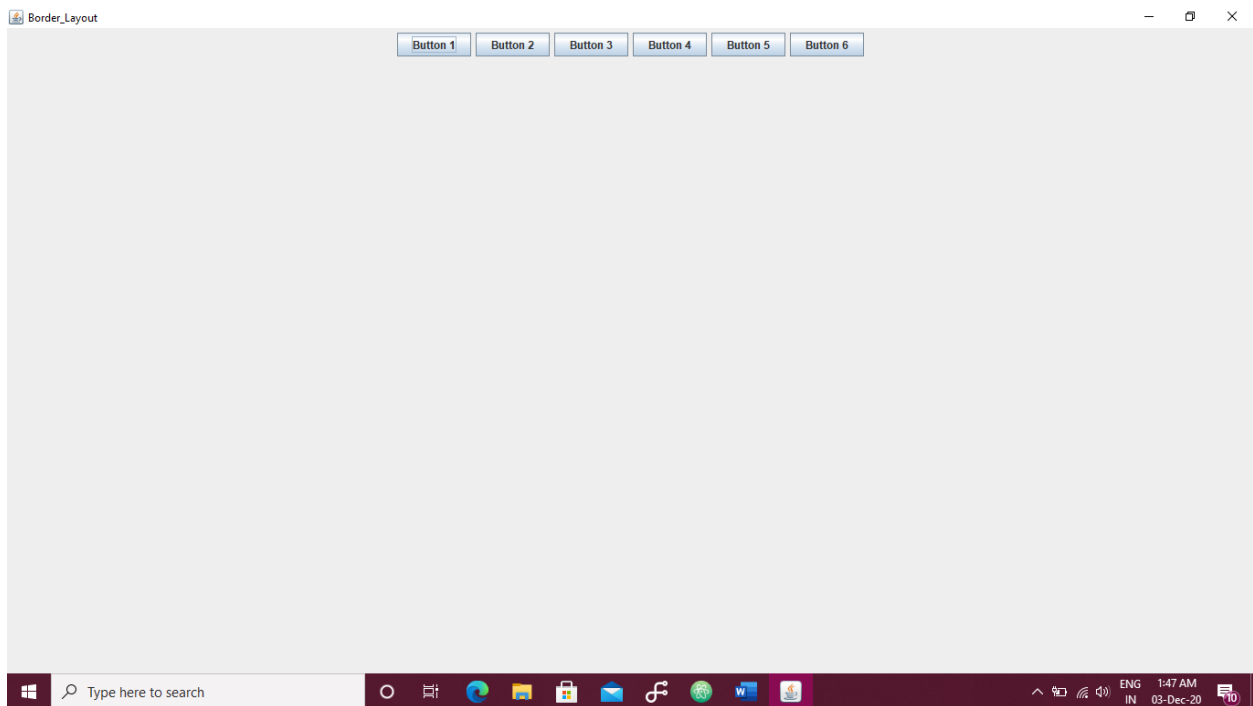
frame.setSize(800, 300);

frame.setVisible(true);

frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

}

}
```



Flow\_Layout.java

```
import javax.swing.JFrame;

import javax.swing.JPanel;

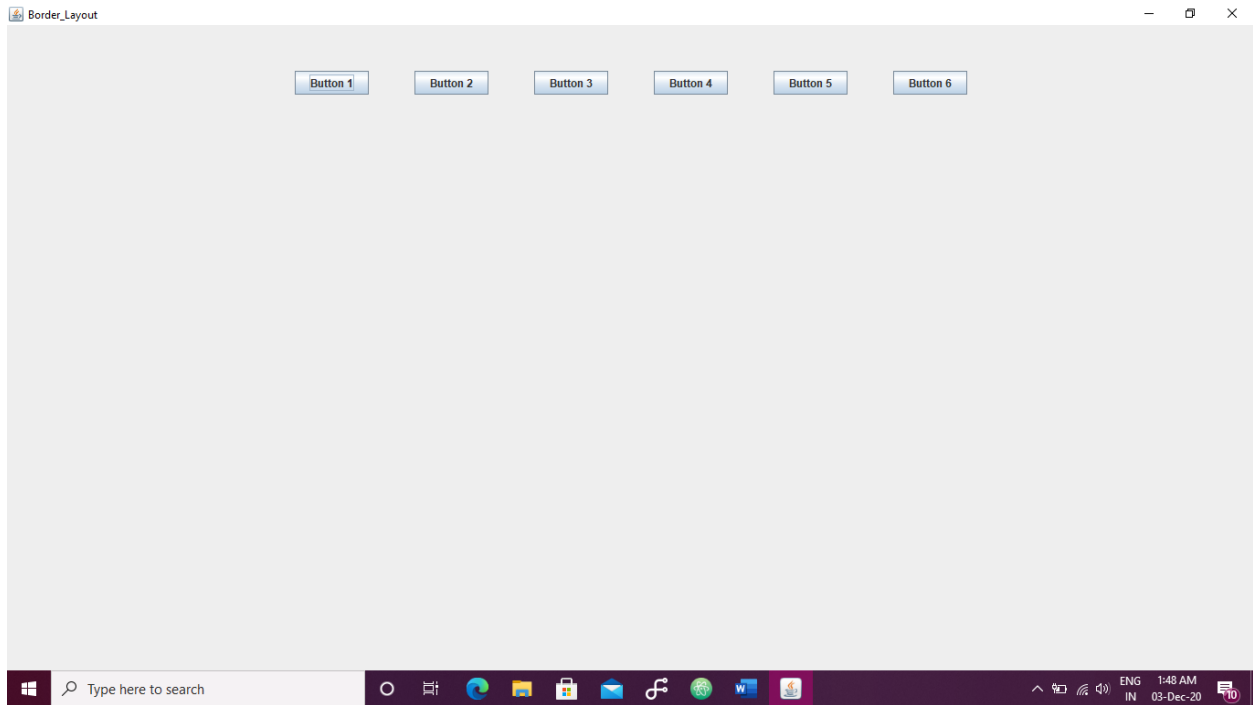
import javax.swing.JButton;

import java.awt.FlowLayout;

class Flow_Layout{

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

```
JFrame frame=new JFrame();  
JPanel panel=new JPanel();  
  
JButton btn1=new JButton("Button 1");  
JButton btn2=new JButton("Button 2");  
JButton btn3=new JButton("Button 3");  
JButton btn4=new JButton("Button 4");  
JButton btn5=new JButton("Button 5");  
JButton btn6=new JButton("Button 6");  
  
panel.setLayout(new FlowLayout(FlowLayout.CENTER, 50, 50));  
  
panel.add(btn1);  
panel.add(btn2);  
panel.add(btn3);  
panel.add(btn4);  
panel.add(btn5);  
panel.add(btn6);  
  
frame.add(panel);  
frame.setTitle("Border_Layout");  
frame.setSize(800, 300);  
frame.setVisible(true);  
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
  
}  
}
```

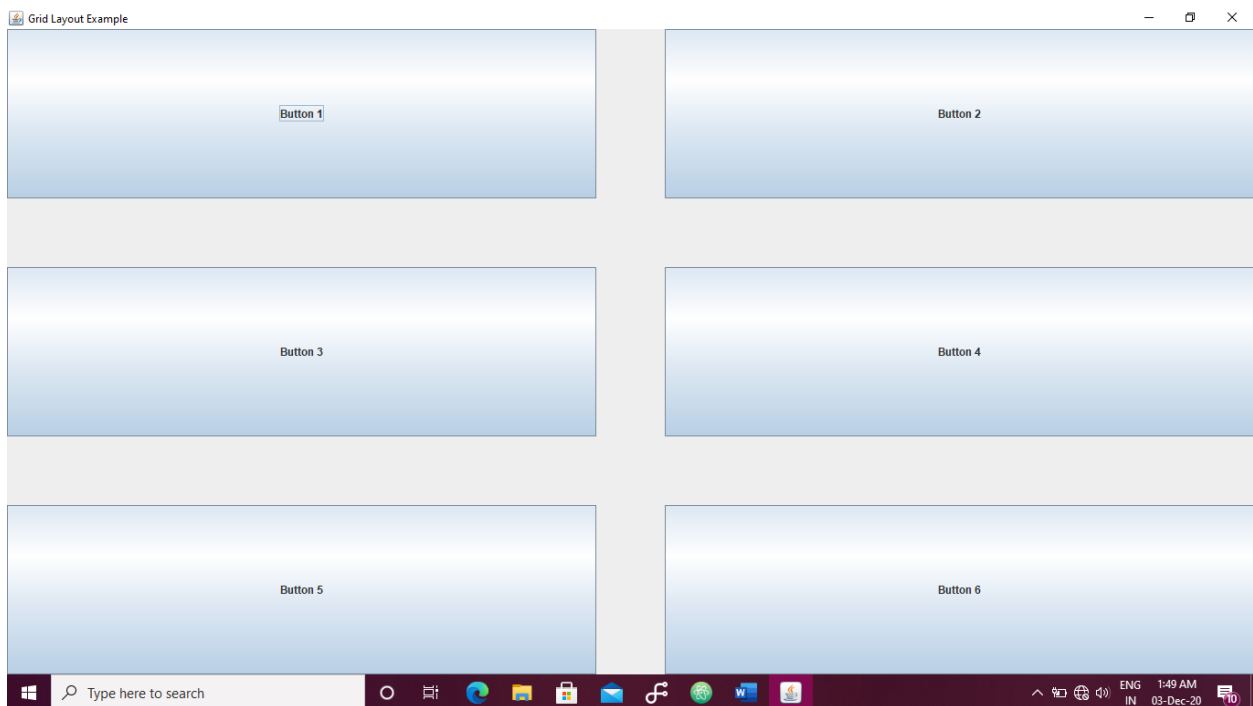


### Grid\_Layout.java

```
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.JButton;  
import java.awt.GridLayout;
```

```
class Grid_Layout{  
    public static void main(String[] args) {  
        JFrame frame=new JFrame();  
        JPanel panel=new JPanel();  
  
        JButton btn1=new JButton("Button 1");  
        JButton btn2=new JButton("Button 2");  
        JButton btn3=new JButton("Button 3");  
        JButton btn4=new JButton("Button 4");  
        JButton btn5=new JButton("Button 5");
```

```
JButton btn6=new JButton("Button 6");  
  
panel.add(btn1);  
panel.add(btn2);  
panel.add(btn3);  
panel.add(btn4);  
panel.add(btn5);  
panel.add(btn6);  
  
panel.setLayout(new GridLayout(3, 2, 75, 75));  
frame.add(panel);  
frame.setTitle("Grid Layout Example");  
frame.setSize(800, 300);  
  
frame.setVisible(true);  
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
}  
}
```



Q2.

```
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JButton;
import javax.swing.JLabel;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
```

```
class Q2{

    static JFrame frame=new JFrame();

    static JPanel panel=new JPanel();


    static JButton btn1=new JButton("Button 1");
    static JButton btn2=new JButton("Button 2");
    static JButton btn3=new JButton("Button 3");
    static JButton btn4=new JButton("Button 4");
    static JButton btn5=new JButton("Button 5");
    static JButton btn6=new JButton("Button 6");


    static JLabel label=new JLabel("Label");


    public static void main(String[] args) {


        panel.add(btn1);
        panel.add(btn2);
        panel.add(btn3);
        panel.add(btn4);
```

```
panel.add(btn5);
```

```
panel.add(btn6);
```

```
panel.add(label);
```

```
panel.setLayout(new GridLayout(3, 2, 75, 75));
```

```
frame.add(panel);
```

```
frame.setTitle("Grid Layout Example");
```

```
frame.setSize(800, 300);
```

```
frame.setVisible(true);
```

```
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
btn1.addActionListener(new ActionListener(){
```

```
    @Override
```

```
    public void actionPerformed(ActionEvent e) {
```

```
        Click();
```

```
    }
```

```
});
```

```
btn2.addActionListener(new ActionListener(){
```

```
    @Override
```

```
    public void actionPerformed(ActionEvent e) {
```

```
        Click();
```

```
    }
```

```
});
```

```
btn3.addActionListener(new ActionListener(){  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        Click();  
    }  
});
```

```
btn4.addActionListener(new ActionListener(){  
  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        Click();  
    }  
});
```

```
btn5.addActionListener(new ActionListener(){  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        Click();  
    }  
});
```

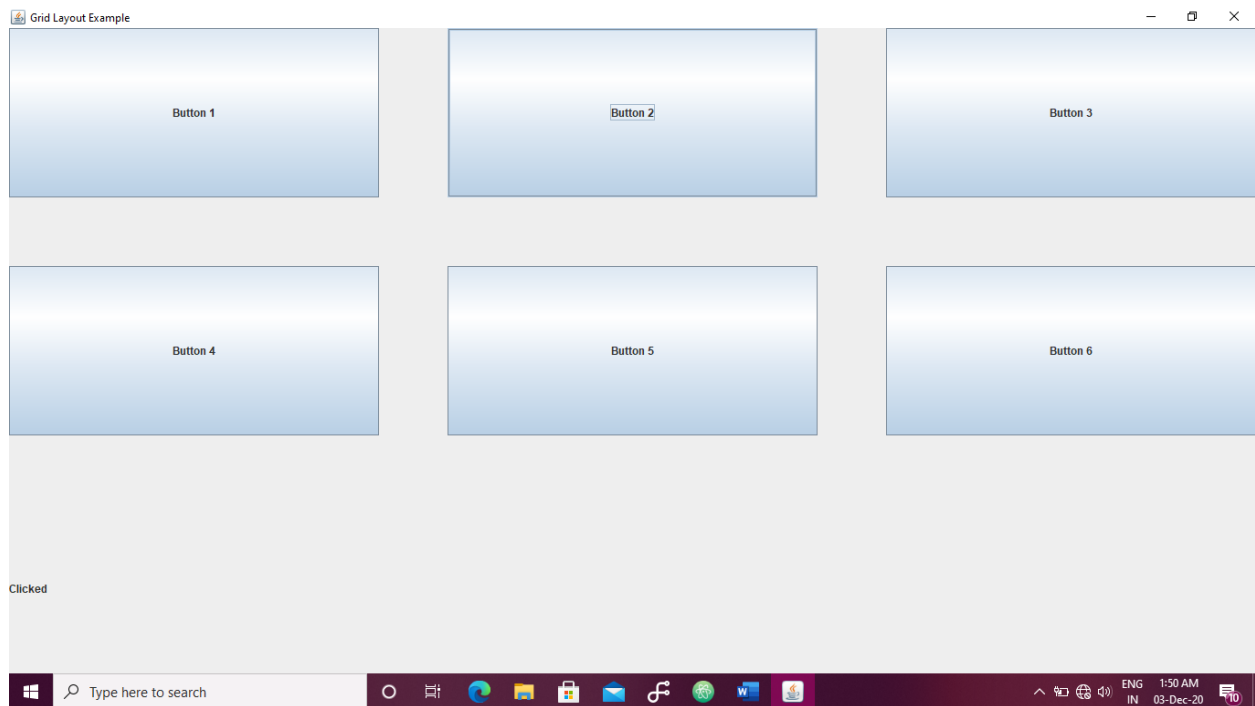
```
btn6.addActionListener(new ActionListener(){  
  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        Click();  
    }  
});
```



```
}
```

```
static void Click(){  
    label.setText("Clicked");  
}
```

```
}
```



Q3.

```
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import java.awt.Color;  
import java.awt.Graphics;  
import java.awt.event.MouseMotionListener;  
import java.awt.event.MouseEvent;
```

```
class Q3{

    public static void main(String[] args) {

        JFrame frame=new JFrame();

        JPanel panel=new JPanel();

        panel.setBackground(Color.lightGray);

        frame.add(panel);

        frame.setTitle("Grid Layout Example");

        frame.setSize(800, 300);

        frame.setResizable(false);

        frame.setVisible(true);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);


        panel.addMouseMotionListener(new MouseMotionListener(){

            @Override

            public void mouseMoved(MouseEvent e) {

            }


            @Override

            public void mouseDragged(MouseEvent e) {

                Graphics G=frame.getGraphics();

                G.setColor(Color.red);

                G.fillRect(e.getX(), e.getY(), 2, 2);

            }

        });

    }

}
```

}

}

