

Experiment - 7.1

Aim:

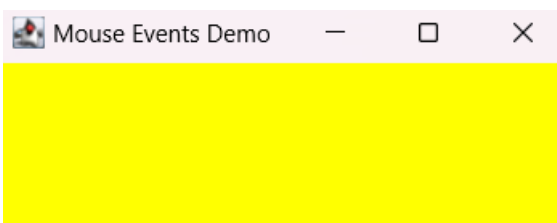
Write a program that illustrates how to process mouse click, enter, exit, press and release events. The background colour changes when the mouse is entered, clicked, pressed, released or exited.

Code:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class MouseEventsDemo extends JFrame implements MouseListener {
    public MouseEventsDemo() {
        setSize(400, 400);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLocationRelativeTo(null);
        setTitle("Mouse Events Demo");
        addMouseListener(this);
    }
    public void mouseClicked(MouseEvent e) {
        getContentPane().setBackground(Color.RED);
    }
    public void mousePressed(MouseEvent e) {
        getContentPane().setBackground(Color.GREEN);
    }
    public void mouseReleased(MouseEvent e) {
        getContentPane().setBackground(Color.BLUE);
    }
    public void mouseEntered(MouseEvent e) {
        getContentPane().setBackground(Color.YELLOW);
    }
    public void mouseExited(MouseEvent e) {
        getContentPane().setBackground(Color.WHITE);
    }
    public static void main(String[] args) {
        SwingUtilities.invokeLater(new Runnable() {
            public void run() {
                MouseEventsDemo demo = new MouseEventsDemo();
                demo.setVisible(true);
            }
        });
    }
}
```

Output:



Experiment - 7.2

Aim:

Write a program that displays your name whenever the mouse is clicked.

Code:

```
import javax.swing.*;
import java.awt.event.*;

public class MouseClickNameDisplay {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Mouse Click Name Display");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent e) {
                JOptionPane.showMessageDialog(null, "Your Name");
            }
        });

        frame.setSize(300, 200);
        frame.setVisible(true);
    }
}
```

Output:

