

## Experiment 11

XII

1. → i) public void mousePressed(MouseEvent me)  
ii) public void mouseReleased(MouseEvent me)  
iii) public void mouseEntered(MouseEvent me)  
iv) public void mouseExited(MouseEvent me)  
v) public void mouseClicked(MouseEvent me)
2. → i) add The MouseListener to the frame.  
ii) ~~With the mouseClicked method~~  
ii) Create mouseClicked method & add it to MouseEvent class in its ~~parameters~~ parameters.  
iii) Using the MouseEvent class object use the method getX() & getY() to obtain the x & y co-ordinate of the mouse.
3. → i) Implement the MouseListener and/or MouseMotionListener.  
ii) Override all the methods from the interfaces.  
iii) Add the Listeners for your components.  
~~iv)~~
4. → All components generate a MouseEvent



mouse clicked(# of clicks:3

Applet started.

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class MouseDemo0 extends JFrame implements MouseListener
{
    Container co;
    MouseDemo()
    {
        co = getContentPane();
        co.addMouseListener(this);
        setVisible(true);
        setSize(500,500);
    }
    public void mousePressed(MouseEvent e)
    {
        co.setBackground(Color.red);
    }
    public void mouseReleased(MouseEvent e)
    {
        co.setBackground(Color.blue);
    }
    public void mouseEntered(MouseEvent e)
    {
        co.setBackground(Color.yellow);
    }
    public void mouseExited(MouseEvent e)
    {
        co.setBackground(Color.black);
    }
    public void mouseClicked(MouseEvent e)
    {
        co.setBackground(Color.green);
    }
    public static void main(String[] args) {
        new MouseDemo0 ();
    }
}
```

```
}
```



```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class MouseDemo1 extends JFrame implements MouseListener
{
    Container co;
    int counter = 0;
    JLabel label;
    MouseDemo1() {
        co = getContentPane();
        label = new JLabel("Counter : " + counter);
        co.add(label);
        co.addMouseListener(this);
        co.setLayout(new FlowLayout(FlowLayout.CENTER));
        setVisible(true);
        setSize(500,200);
    }
    public void mousePressed(MouseEvent e) {
    }
    public void mouseReleased(MouseEvent e) {
    }
    public void mouseEntered(MouseEvent e) {
    }
}
```

```

public void mouseExited(MouseEvent e) {
}
public void mouseClicked(MouseEvent e) {
    counter++;
    label.setText("Counter : " + counter);
}
public static void main(String[] args) {
    new MouseDemo1();
}
}

```



```

import javax.swing.*.*;
import java.awt.*.*;
import java.awt.event.*.*;
public class MouseDemo2 extends JFrame implements MouseMotionListener
{
    Container co;
    JLabel l1;
    JLabel l2;
    MouseDemo2() {
        co = getContentPane();

        l1 = new JLabel("Mouse Moved : None");
        l2 = new JLabel("Mouse Dragged : None");

        co.add(l1);
        co.add(l2);
        co.addMouseMotionListener(this);
        setLayout(new FlowLayout(FlowLayout.CENTER));
        setVisible(true);
        setSize(500,500);
    }
    public void mouseDragged(MouseEvent e) {
        l1.setText("Mouse Dragged : " + e.getX() + ", " + e.getY());
    }
    public void mouseMoved(MouseEvent e) {
        l2.setText("Mouse Moved : " + e.getX() + ", " + e.getY());
    }
    public static void main(String[] args) {
        new MouseDemo2();
    }
}

```



**Mouse Dragged : 315, 295 Mouse Moved : 259, 193**