

Aim: Create, debug and run Java program based on mouse event and keyboard event.

Theory:

What are Event?

- Java applets are mainly event driven programs.
- User activities related to keyboard and mouse are called event

Handling event

Step 1: import classes from the package

Import Java awt event.

Step 2: Implement the appropriate listeners interface.

Step 3: Register the listener object with the appropriate event Source.

Step 4: Define all the methods of implemented listener interface.

Conclusion: Hence, we successfully create, debug and Java program based on mouse event and keyboard event



```
import java.applet.*;  
import java.awt.*;  
import java.awt.event.*;  
  
public class Assignment13 extends Applet {  
    public void init () {  
        Button btn = new Button ("Button");  
        setLayout (null);  
        btn.setBounds (250, 200, 100, 20);  
        btn.addMouseListener (new HelperListener (this));  
        add (btn);  
        set Visible (true);  
    }  
}
```

```
class HelperListener extends MouseAdapter {  
    Assignment13 ad ;  
    public HelperListener (Assignment13 ad) {  
        this.ad = ad;  
    }  
}
```

```

public void mouseClicked (MouseEvent e) {
    if ((e.getModifiers () & InputEvent.BUTTON1
        - MASK) != 0) {
        System.out.println (" Left click detected");
    }
    if ((e.getModifiers () & InputEvent.BUTTON2 - MASK) != 0) {
        System.out.println (" Middle click detected");
    }
    if ((e.getModifiers () & InputEvent.BUTTON3 - MASK
        BUTTON3 - MASK) != 0) {
        System.out.println (" Right click Detected");
    }
}

```

```

int count = e.getClickCount ();
switch (count) {

```

Case 1:

```

    ad.setBackground (color.black);
    break;

```

Case 2:

```

    ad.setBackground (color.Yellow);
    break;

```

Case 3:

```

    ad.setBackground (color.Red);
    break;

```

Case 4:

```

    ad.setBackground (color.Blue);
    break;

```

Case 5:

```

    ad.setBackground (color.green green);
    break;

```



```
default: break;
}
}
}
```

```
C:\Users\Public\Java>javac practical19.java
```

```
C:\Users\Public\Java>appletviewer practical19.java  
Left click detected
```

