LAB 9

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Program to illustrate MouseAdapter Class

OBJECTIVE:

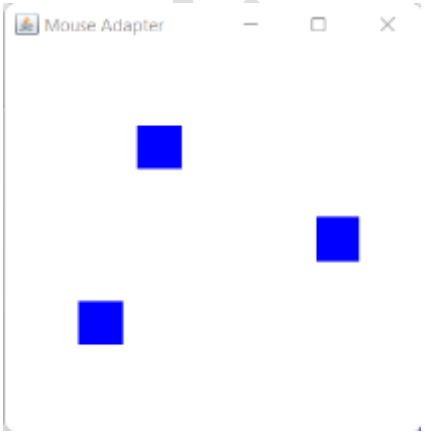
The following program creates a UI and overrides the mouseClicked method of the MouseAdapter Class.

The program creates a rectangle whenever a user makes a mouse click.

CODE:

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

public class Lab9MouseAdapter {
    public class MouseAdapterProg extends MouseAdapter{
        Frame f;

        MouseAdapterProg(){
            f = new Frame ("Mouse Adapter");
            f.addMouseListener(this);

            f.setSize (300, 300);
            f.setLayout (null);
            f.setVisible (true);
        }

        public void mouseClicked (MouseEvent e) {
            Graphics g = f.getGraphics();
            g.setColor (Color.BLUE);
            g.fillRect (e.getX(), e.getY(), 30, 30);
        }
    }

    public static void main(String[] args) {
        Lab9MouseAdapter l = new Lab9MouseAdapter();

        MouseAdapterProg m = l.new MouseAdapterProg();
    }
}
```

OUTPUT:



Program to illustrate MouseAdapter Class

OBJECTIVE:

The following program creates a UI and overrides the keyReleased method of the KeyAdapter Class.

The program counts the number of words and letters typed by the user.

CODE:

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

public class Lab9KeyAdapter {
    public class KeyAdapterProg extends KeyAdapter{
        Label l;
        TextArea area;
        Frame f;

        KeyAdapterProg(){
            f = new Frame ("Key Adapter");
            l = new Label();
            l.setBounds (20, 50, 200, 20);
            area = new TextArea();
            area.setBounds (20, 80, 300, 300);
            area.addKeyListener(this);
            f.add(l);
            f.add(area);
            f.setSize (400, 400);
            f.setLayout (null);
            f.setVisible (true);
        }

        public void keyReleased (KeyEvent e) {
            String text = area.getText();
            String words[] = text.split ("\\s");
            l.setText ("Words: " + words.length + " Characters:" + text.length());
        }
    }

    public static void main(String[] args) {
        Lab9KeyAdapter l = new Lab9KeyAdapter();

        KeyAdapterProg m = l.new KeyAdapterProg();
    }
}
```

OUTPUT: