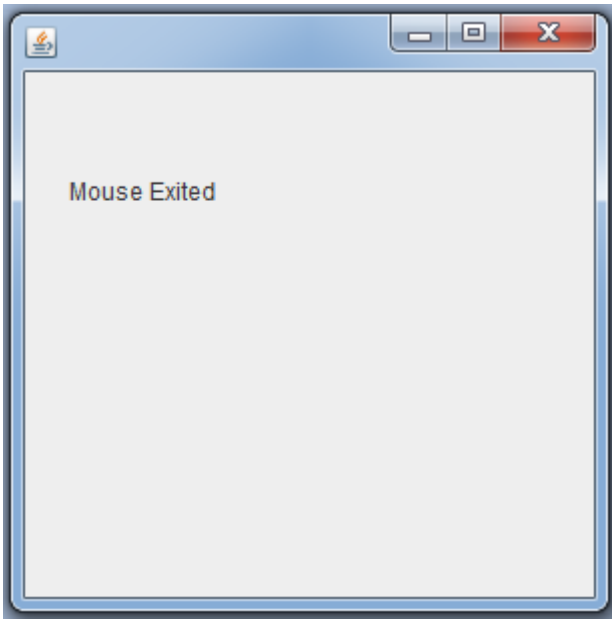
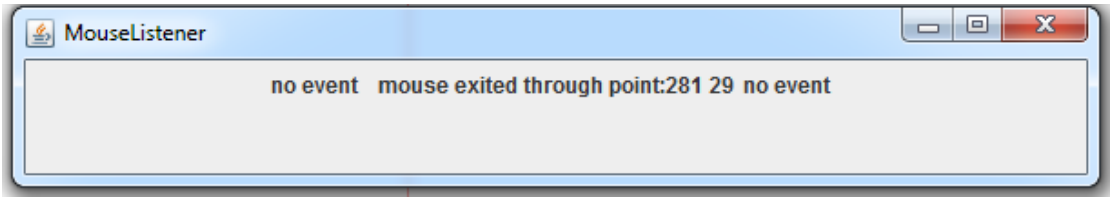
```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class Mouse extends JFrame implements MouseListener {

   Label l;
   Mouse(){
  addMouseListener(this);

          l=new Label();
       l.setBounds(20,50,100,20);
       add(l);
      // l.addMouseListener(this);
       setSize(300,300);
       setLayout(null);
       setVisible(true);
   }
   public void mouseClicked(MouseEvent e) {
      // l.setText("Mouse Clicked");
   }
   public void mouseEntered(MouseEvent e) {
      l.setText("Mouse Entered");
   }
   public void mouseExited(MouseEvent e) {
      l.setText("Mouse Exited");
   }
   public void mousePressed(MouseEvent e) {
      l.setText("Mouse Pressed");
   }
   public void mouseReleased(MouseEvent e) {
      l.setText("Mouse Released");
   }
   public static void main(String[] args) {
     new Mouse();
   }

}
```




```
public class Mouse222 extends JFrame implements MouseListener {
   static JLabel label1, label2, label3;
   int x, y,x1,y1;
 static JFrame f;
 static JPanel p;
   Mouse222() {
   }
   public static void main(String[] args) {
       f = new JFrame("MouseListener");
      f.setSize(600, 100);
      f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
      p = new JPanel();
      p.setLayout(new FlowLayout());
      label1 = new JLabel("no event  ");
      label2 = new JLabel("no event  ");
      label3 = new JLabel("no event  ");
      Mouse222 m = new Mouse222();
      f.addMouseListener(m);
      p.add(label1);
      p.add(label2);
      p.add(label3);
      f.add(p);
      f.setVisible(true);
   }

   public void mouseReleased(MouseEvent e) {
f.getContentPane().setBackground(Color.blue);
      // show the point where the user released the mouse click
      label1.setText("mouse released at point:"
            + e.getX() + " " + e.getY());
      x1 = e.getX();
      y1= e.getY();
```

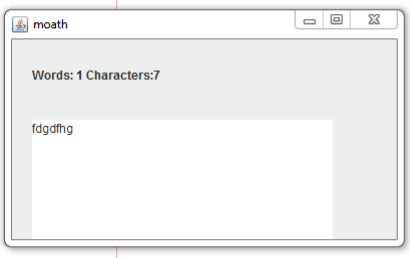
```
    // p.setBackground(Color.yellow);
  }

    public void mousePressed(MouseEvent e) {
//p.setBackground(Color.cyan);
    // show the point where the user pressed the mouse
    label1.setText("mouse pressed at point:"
        + e.getX() + " " + e.getY() + " " + e.getClickCount());
    x=e.getX();
    y=e.getY();
    // p.setBackground(Color.red);
  }

  // this function is invoked when the mouse is released
  // this function is invoked when the mouse exits the component
  public void mouseExited(MouseEvent e) {

    // show the point through which the mouse exited the frame
    label2.setText("mouse exited through point:"
        + e.getX() + " " + e.getY());
    // p.setBackground(Color.blue);
  }

  // this function is invoked when the mouse enters the component
  public void mouseEntered(MouseEvent e) {
    // show the point through which the mouse entered the frame

    label2.setText("mouse entered at point:"
        + e.getX() + " " + e.getY());
     //p.setBackground(Color.cyan);
  }

  // this function is invoked when the mouse is pressed or released
  public void mouseClicked(MouseEvent e) {
    // getClickCount gives the number of quick,
    // consecutive clicks made by the user
    // show the point where the mouse is i.e
    // the x and y coordinates


    label3.setText("mouse clicked at point:"
        + e.getX() + " "
        + e.getY() + "mouse clicked :" + e.getClickCount());
   // Color color=JColorChooser.showDialog(this,"Select a color", Color.BLUE);
    // p.setBackground(color);
  }
  public void paint(Graphics g)
{
            super.paint(g);
            g.setColor(Color.red);
            g.drawLine(x,y,x1,y1);
}
```

} // TODO code application logic here



Kb listener

```
public class Keykey extends JFrame implements KeyListener {
JLabel l;
    JTextArea area;
    JFrame f;
    Keykey(){
        super("moath");
         l=new JLabel();
        l.setBounds(20,20,300,30);
        area=new JTextArea();
        area.setBounds(20,80,300, 300);
        area.addKeyListener(this);
         add(l);add(area);
        setSize(400,400);
       setLayout(null);
        setVisible(true);      }
    public void keyPressed(KeyEvent e) {
        l.setText("Key Pressed");      }
    public void keyReleased(KeyEvent e) {
        l.setText("Key Released");
        String text=area.getText();
        String words[]=text.split(" ");
        l.setText("Words: "+words.length+" Characters:"+text.length());     }
    public void keyTyped(KeyEvent e) {
        l.setText("Key Typed");    }
        public static void main(String[] args) {
       new Keykey();
```




```
import java.awt.event.*;
public class Keytyped {
 static String s="";
 static JLabel l2;
    public static void main(String[] args) {
    JFrame.setDefaultLookAndFeelDecorated(true);
    JFrame frame = new JFrame("KeyListener Example");
    frame.setSize(300,150);
  final JLabel   label = new JLabel();
    frame.add(label);
    l2=new JLabel("all charecters");
 frame.add(l2);
 frame.setLayout(new FlowLayout());
    frame.addKeyListener(new KeyListener() {
        public void keyTyped(KeyEvent ke) {
          label.setText("Key Typed: "+ ke.getKeyChar());
                  char c= ke.getKeyChar();
                   s=s+c;
                 System.out.println(s);
        l2.setText("all the typed charecters= "+s);      }
      public void keyPressed(KeyEvent ke) {}
      public void keyReleased(KeyEvent ke) {}
    });
    frame.setVisible(true);
  }
}
```