2.Write a program to demonstrate mouse listener and mouse motion listener in an applet. When mouse is clicked, a message should be displayed as "Mouse clicked" with number of clicks and with foreground colour set as pink. Similarly "Mouse entered", "Mouse exited", "Mouse Pressed", "Mouse dragged", "Mouse released " should be displayed accordingly by changing foreground colour each time.
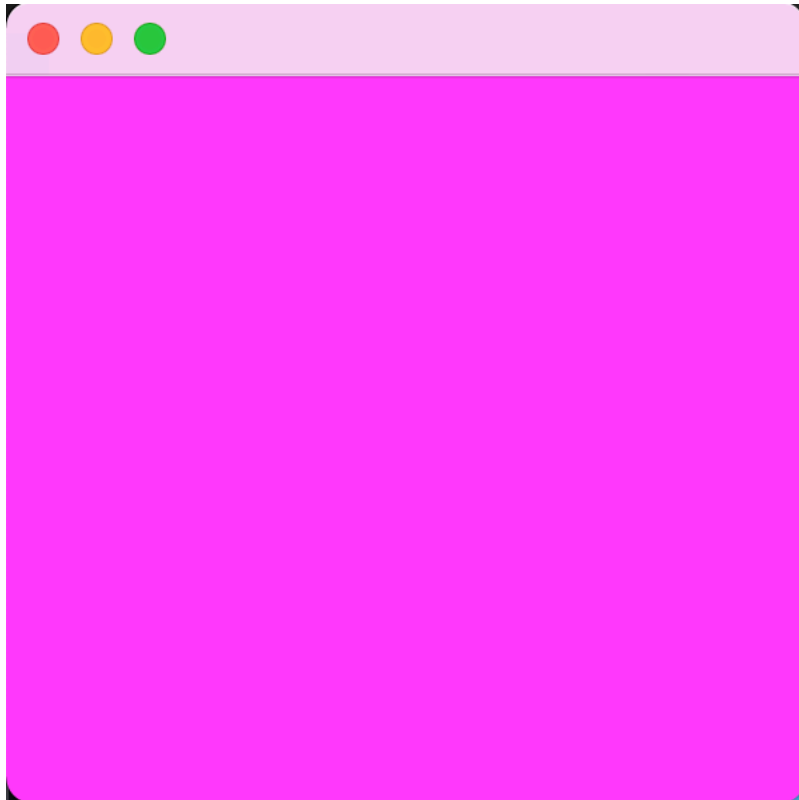
```java
import java.awt.*;
import java.awt.event.*;

public class MouseDemo extends Frame implements MouseListener
{
  public MouseDemo( )
  {
   addMouseListener(this);          // link the frame with ML
   setSize(300,300);
   setVisible(true);
  }
                  // override the 5 abstract methods of ML
  public void mousePressed(MouseEvent e)
  {
          // do some action to distinguish from other methods
   setBackground(Color.red);
   System.out.println("Mouse is Pressed");
  }
  public void mouseReleased(MouseEvent e)
  {
   setBackground(Color.blue);
   System.out.println("Mouse is Released");
  }
  public void mouseClicked(MouseEvent e)
  {
   setBackground(Color.green);
   System.out.println("Mouse is Clicked");
  }
  public void mouseEntered(MouseEvent e)
  {
   setBackground(Color.cyan);
   System.out.println("Mouse is Entered");
  }
  public void mouseExited(MouseEvent e)
  {
   setBackground(Color.magenta);
   System.out.println("Mouse is Exited");
  }
  public static void main(String args[])
```

```
   {
     new MouseDemo();
   }
}
```
output:

```
mouse_listener — java MouseDemo — 80×24

Last login: Mon Jan 11 12:47:01 on ttys002
[ADITYAs-MacBook-Pro:~ adityaprakasha$ cd developwe                              ]
 -bash: cd: developwe: No such file or directory
[ADITYAs-MacBook-Pro:~ adityaprakasha$ cd developer                             ]
[ADITYAs-MacBook-Pro:developer adityaprakasha$ cd java                          ]
[ADITYAs-MacBook-Pro:java adityaprakasha$ cd practice_pro                       ]
[ADITYAs-MacBook-Pro:practice_pro adityaprakasha$ cd mouse_listener             ]
[ADITYAs-MacBook-Pro:mouse_listener adityaprakasha$ java MouseDemo              ]
Mouse is Entered
Mouse is Exited
Mouse is Entered
Mouse is Pressed
Mouse is Released
Mouse is Clicked
Mouse is Exited
```