"JP Practical 12: Write AWT/Swing program in Java to demonstrate different events"

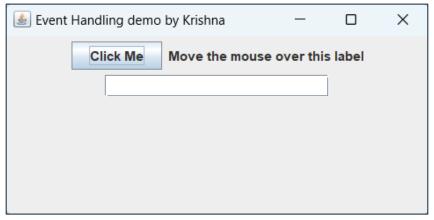
A] Code:

```
package graphical.ui.apps;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
public class L_DifferentEventDemonstration extends JFrame{
  private JButton cliclButton;
  private JLabel mouseLabel;
  private JTextField keyTextField;
  public L_DifferentEventDemonstration(){
    setTitle("Event Handling demo by Krishna");
    setSize(400,200);
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setLayout(new FlowLayout());
//
       Button for button click event
    cliclButton = new JButton("Click Me");
    cliclButton.addActionListener(new ActionListener() {
      @Override
      public void actionPerformed(ActionEvent e) {
        JOptionPane.showMessageDialog(L_DifferentEventDemonstration.this, "Button Clicked!");
    });
//
      Label for mouse events
    mouseLabel = new JLabel("Move the mouse over this label");
    mouseLabel.addMouseListener(new MouseAdapter() {
      @Override
      public void mouseClicked(MouseEvent e) {
        super.mouseClicked(e);JOptionPane.showMessageDialog(L_DifferentEventDemonstration.this, "Mouse
```

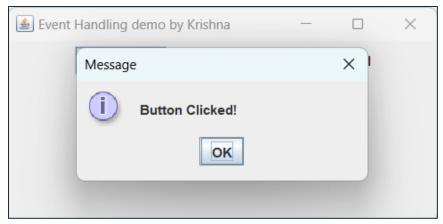
```
Clicked!");
    });
       Text field for key events
//
    keyTextField = new JTextField(20);
    keyTextField.addKeyListener(new KeyAdapter() {
      @Override
      public void keyTyped(KeyEvent e) {
        char typedChar = e.getKeyChar();
        JOptionPane.showMessageDialog(L_DifferentEventDemonstration.this, "Key Typed!");
    });
       Add components to the frame
    add(cliclButton);
    add(mouseLabel);
    add(keyTextField);
    setVisible(true);
  public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> new L_DifferentEventDemonstration());
```

B] O/P:

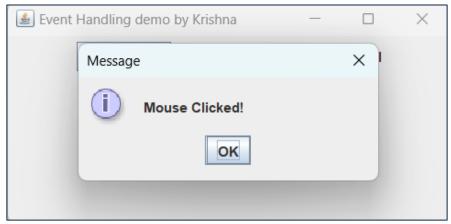
a] Before event triggered:



b] After button clicked:



c] After mouse clicked over the label:



d] After key pressed in the input field:

