**Create a Java program to demonstrate default and custom event handling.**

**Default Event Handling**

import javax.swing.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class DefaultEventHandlingDemo {

public static void main(String[] args) {

JFrame frame = new JFrame("Default Event Handling");

frame.setSize(300, 150);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

JButton button = new JButton("Click Me");

button.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

JOptionPane.showMessageDialog(frame, "Button clicked!",

"Default Event Handling", JOptionPane.INFORMATION\_MESSAGE);

}

});

frame.getContentPane().add(button);

frame.setVisible(true);

}

}

**Custom event handling**

import java.util.EventObject;

import java.util.ArrayList;

import java.util.List;

// Custom event class

class CustomEvent extends EventObject {

public CustomEvent(Object source) {

super(source);

}

}

// Custom event listener interface

interface CustomEventListener {

void customEventOccurred(CustomEvent event);

}

// Custom event source class

class EventSource {

private List<CustomEventListener> listeners = new ArrayList<>();

public void addCustomEventListener(CustomEventListener listener) {

listeners.add(listener);

}

public void removeCustomEventListener(CustomEventListener listener) {

listeners.remove(listener);

}

public void fireEvent() {

CustomEvent event = new CustomEvent(this);

for (CustomEventListener listener : listeners) {

listener.customEventOccurred(event);

}

}

}

class CustomListener implements CustomEventListener {

@Override

public void customEventOccurred(CustomEvent event) {

System.out.println("Custom event occurred from " + event.getSource());

}

}

public class CustomEventHandlingDemo {

public static void main(String[] args) {

EventSource eventSource = new EventSource();

CustomListener customListener = new CustomListener();

eventSource.addCustomEventListener(customListener);

eventSource.fireEvent();

}

}