SWING - WINDOWADAPTER CLASS

http://www.tutorialspoint.com/swing/swing windowadapter.htm

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Introduction

The class **WindowAdapter** is an abstract *adapter* class for receiving window events. All methods of this class are empty. This class is convenience class for creating listener objects.

Class declaration

Following is the declaration for java.awt.event.WindowAdapter class:

```
public abstract class WindowAdapter
  extends Object
  implements WindowListener, WindowStateListener, WindowFocusListener
```

Class constructors

S.N. Constructor & Description

1 WindowAdapter

Class methods

S.N. Method & Description

1 **void windowActivated** WindowEvente

Invoked when a window is activated.

2 void windowClosedWindowEvente

Invoked when a window has been closed.

3 **void windowClosing***WindowEvente*

Invoked when a window is in the process of being closed.

4 **void windowDeactivated**WindowEvente

Invoked when a window is de-activated.

5 **void windowDeiconified**WindowEvente

Invoked when a window is de-iconified.

6 void windowGainedFocusWindowEvente

Invoked when the Window is set to be the focused Window, which means that the Window, or one of its subcomponents, will receive keyboard events.

7 **void windowlconified** *WindowEvente*

Invoked when a window is iconified.

8 **void windowLostFocus**WindowEvente

Invoked when the Window is no longer the focused Window, which means that keyboard events will no longer be delivered to the Window or any of its subcomponents.

9 **void windowOpened**WindowEvente

Invoked when a window has been opened.

10 **void windowStateChanged**WindowEvente

Invoked when a window state is changed.

Methods inherited

This class inherits methods from the following classes:

java.lang.Object

WindowAdapter Example

Create the following java program using any editor of your choice in say **D:/ > SWING > com > tutorialspoint > gui >**

SwingAdapterDemo.java

```
package com.tutorialspoint.gui;
import java.awt.*;
import java.awt.event.*;
public class SwingAdapterDemo {
   private JFrame mainFrame;
   private JLabel headerLabel;
   private JLabel statusLabel;
   private JPanel controlPanel;
   public SwingAdapterDemo(){
      prepareGUI();
   public static void main(String[] args){
      SwingAdapterDemo swingAdapterDemo = new SwingAdapterDemo();
      swingAdapterDemo.showWindowAdapterDemo();
   private void prepareGUI(){
      mainFrame = new JFrame("Java SWING Examples");
      mainFrame.setSize(400,400);
      mainFrame.setLayout(new GridLayout(3, 1));
      headerLabel = new JLabel("", JLabel.CENTER );
      statusLabel = new JLabel("", JLabel.CENTER);
      statusLabel.setSize(350, 100);
      mainFrame.addWindowListener(new WindowAdapter() {
         public void windowClosing(WindowEvent windowEvent){
         System.exit(0);
      });
      controlPanel = new JPanel();
      controlPanel.setLayout(new FlowLayout());
      mainFrame.add(headerLabel);
      mainFrame.add(controlPanel);
```

```
mainFrame.add(statusLabel);
      mainFrame.setVisible(true);
   }
   private void showWindowAdapterDemo(){
      headerLabel.setText("Listener in action: WindowAdapter");
      JButton okButton = new JButton("OK");
      final JFrame aboutFrame = new JFrame();
      aboutFrame.setSize(300,200);;
      aboutFrame.setTitle("WindowAdapter Demo");
      aboutFrame.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent windowEvent){
               aboutFrame.dispose();
      });
      JLabel msglabel
      = new JLabel("Welcome to TutorialsPoint SWING Tutorial."
      , JLabel.CENTER);
   aboutFrame.add(msgLabel);
      aboutFrame.setVisible(true);
   }
}
```

Compile the program using command prompt. Go to D:/> **SWING** and type the following command.

D:\SWING>javac com\tutorialspoint\gui\SwingAdapterDemo.java

If no error comes that means compilation is successful. Run the program using following command.

D:\SWING>java com.tutorialspoint.gui.SwingAdapterDemo

Verify the following output

