

SWING - FOCUSADAPTER CLASS

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

Copyright © tutorialspoint.com

Introduction

The class **FocusAdapter** is an abstract *adapter* class for receiving keyboard focus 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.FocusAdapter** class:

```
public abstract class FocusAdapter
    extends Object
    implements FocusListener
```

Class constructors

S.N.	Constructor & Description
------	---------------------------

1	FocusAdapter
---	---------------------

Class methods

S.N.	Method & Description
------	----------------------

1	void focusGained <i>FocusEvent</i> Invoked when a component gains the keyboard focus.
---	---

Methods inherited

This class inherits methods from the following classes:

- java.lang.Object

FocusAdapter 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.*;
import javax.swing.*;

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.showFocusAdapterDemo();
}

private void prepareGUI(){
    JFrame mainFrame = new JFrame("Java SWING Examples");
    mainFrame.setSize(400,400);
    mainFrame.setLayout(new GridLayout(3, 1));

    JLabel headerLabel = new JLabel("",JLabel.CENTER );
    JLabel statusLabel = new JLabel("",JLabel.CENTER);

    statusLabel.setSize(350,100);
    mainFrame.addWindowListener(new WindowAdapter() {
        public void windowClosing(WindowEvent windowEvent){
            System.exit(0);
        }
    });
    JPanel controlPanel = new JPanel();
    controlPanel.setLayout(new FlowLayout());

    mainFrame.add(headerLabel);
    mainFrame.add(controlPanel);
    mainFrame.add(statusLabel);
    mainFrame.setVisible(true);
}

private void showFocusAdapterDemo(){

    headerLabel.setText("Listener in action: FocusAdapter");

    JButton okButton = new JButton("OK");
    JButton cancelButton = new JButton("Cancel");
    okButton.addFocusListener(new FocusAdapter(){
        public void focusGained(FocusEvent e) {
            statusLabel.setText(statusLabel.getText()
                + e.getComponent().getClass().getSimpleName()
                + " gained focus. ");
        }
    });

    cancelButton.addFocusListener(new FocusAdapter(){
        public void focusLost(FocusEvent e) {
            statusLabel.setText(statusLabel.getText()
                + e.getComponent().getClass().getSimpleName()
                + " lost focus. ");
        }
    });

    controlPanel.add(okButton);
    controlPanel.add(cancelButton);
    mainFrame.setVisible(true);
}
}

```

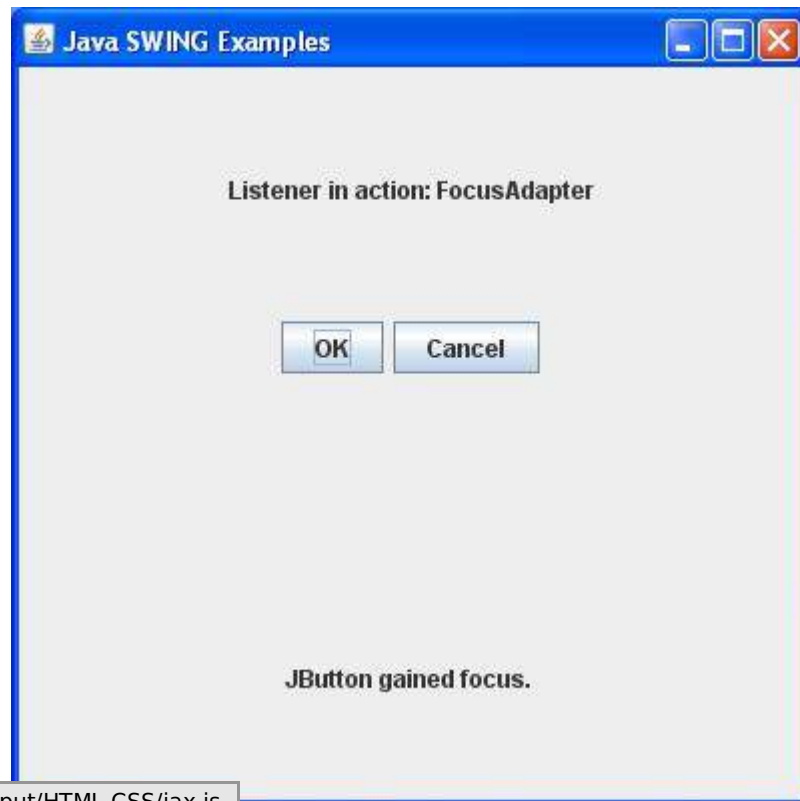
Compile the program using command prompt. Go to **D:/ > SWING** and type the following command.

```
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



Loading [MathJax]/jax/output/HTML-CSS/jax.js