SWING - KEYADAPTER CLASS

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

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Introduction

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

```
public abstract class KeyAdapter
extends Object
implements KeyListener
```

Class constructors

S.N. Constructor & Description

1 KeyAdapter

Class methods

S.N. Method & Description

1 **void keyPressed***KeyEvente*

Invoked when a key has been pressed.

2 void keyReleasedKeyEvente

Invoked when a key has been released.

3 **void keyTyped**KeyEvente

Invoked when a key has been typed.

Methods inherited

This class inherits methods from the following classes:

· java.lang.Object

KeyAdapter 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.showKeyAdapterDemo();
   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 showKeyAdapterDemo(){
      headerLabel.setText("Listener in action: KeyAdapter");
      final JTextField textField = new JTextField(10);
      textField.addKeyListener(new KeyAdapter() {
          public void keyPressed(KeyEvent e) {
             if(e.getKeyCode() == KeyEvent.VK_ENTER){
                statusLabel.setText("Entered text: "
                + textField.getText());
      });
      JButton okButton = new JButton("OK");
      okButton.addActionListener(new ActionListener() {
          public void actionPerformed(ActionEvent e) {
             statusLabel.setText("Entered text: "
             + textField.getText());
      });
      controlPanel.add(textField);
      controlPanel.add(okButton);
      mainFrame.setVisible(true);
   }
}
```

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

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

