## Print Window Close Window

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class Assignment06 implements ActionListener
{
    private JFrame frame;
    private JLabel instructionLabel;
    private JPanel leftPanel;
    private JPanel rightPanel;
    private JButton wrapButton, doNotWrapButton;
    private JButton emptyButton, clearButton;
    private JTextArea textArea;
    private JScrollPane scroller;
    private JButton scrollButton, scrollVerticalButton,
            scrollHorizontalButton, doNotScrollButton;
    public static void main (String[] args)
        Assignment06 quiWindow = new Assignment06();
        guiWindow.setUp();
    public void setUp()
        frame = new JFrame("Assignment 6");
        frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
        Container contentPane = frame.getContentPane();
        contentPane.setLayout(new BorderLayout());
        instructionLabel = new JLabel("Use the buttons to " +
                   "control the layout of the text you type.");
        contentPane.add(instructionLabel, BorderLayout.NORTH);
        leftPanel = new JPanel();
        leftPanel.setLayout(new GridLayout(4,1));
        wrapButton = new JButton("Wrap Text");
        emptyButton = new JButton();
        clearButton = new JButton("Clear Text");
        doNotWrapButton = new JButton("Do Not Wrap Text");
        wrapButton.addActionListener(this);
        doNotWrapButton.addActionListener(this);
        clearButton.addActionListener(this);
        leftPanel.add(wrapButton);
        leftPanel.add(doNotWrapButton);
        leftPanel.add(emptyButton);
        leftPanel.add(clearButton);
        contentPane.add(leftPanel,BorderLayout.WEST);
        textArea = new JTextArea(5,15);
        scroller = new JScrollPane(textArea);
        scroller.setVerticalScrollBarPolicy(
            ScrollPaneConstants.VERTICAL SCROLLBAR NEVER);
        scroller.setHorizontalScrollBarPolicy(
            ScrollPaneConstants.HORIZONTAL_SCROLLBAR_NEVER);
        contentPane.add(scroller, BorderLayout.CENTER);
        rightPanel = new JPanel();
        rightPanel.setLayout(new GridLayout(4,1));
        scrollButton = new JButton("Scroll Both Ways");
        scrollVerticalButton = new JButton("Scroll Vertically");
```

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scrollHorizontalButton = new JButton(
                                      "Scroll Horizontally");
    doNotScrollButton = new JButton("Do Not Scroll");
    scrollButton.addActionListener(this);
    scrollVerticalButton.addActionListener(this);
    scrollHorizontalButton.addActionListener(this);
    doNotScrollButton.addActionListener(this);
    rightPanel.add(scrollVerticalButton);
    rightPanel.add(scrollHorizontalButton);
    rightPanel.add(scrollButton);
    rightPanel.add(doNotScrollButton);
    contentPane.add(rightPanel, BorderLayout.EAST);
    frame.pack();
    frame.setVisible(true);
}
public void actionPerformed(ActionEvent e)
if (e.getSource() == wrapButton)
wrapText();
else if (e.getSource() == doNotWrapButton)
doNotWrapText();
else if (e.getSource() == clearButton)
clearText();
else if (e.getSource() == scrollButton)
scrollBothWays();
else if (e.getSource() == scrollVerticalButton)
scrollVertical();
else if (e.getSource() == scrollHorizontalButton)
scrollHorizontal();
else if (e.getSource() == doNotScrollButton)
doNotScroll();
else
textArea.append("Should not get here!\n");
private void wrapText()
textArea.setLineWrap(true);
private void doNotWrapText()
textArea.setLineWrap(false);
private void clearText()
textArea.setText("");
private void scrollBothWays()
   scroller.setVerticalScrollBarPolicy(
        ScrollPaneConstants.VERTICAL SCROLLBAR ALWAYS);
   scroller.setHorizontalScrollBarPolicy(
        ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS);
}
private void scrollVertical()
{
   scroller.setVerticalScrollBarPolicy(
        ScrollPaneConstants.VERTICAL SCROLLBAR ALWAYS);
   scroller.setHorizontalScrollBarPolicy(
```

```
ScrollPaneConstants.HORIZONTAL_SCROLLBAR_NEVER);

private void scrollHorizontal()
{
    scroller.setVerticalScrollBarPolicy(
        ScrollPaneConstants.VERTICAL_SCROLLBAR_NEVER);
    scroller.setHorizontalScrollBarPolicy(
        ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS);
}

private void doNotScroll()
{
    scroller.setVerticalScrollBarPolicy(
        ScrollPaneConstants.VERTICAL_SCROLLBAR_NEVER);
    scroller.setHorizontalScrollBarPolicy(
        ScrollPaneConstants.HORIZONTAL_SCROLLBAR_NEVER);
}
```

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