EECS1720 Worksheet 6 – Java AWT/Swing Event Handling

| 1) | What is an Event? |
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| 2) | How do Events differ from Exceptions? |
| 3) | How are Events dispatched and handled? |
| 4) | What is an Inner Class? Why are they useful for Event Handling?? |

| 5) | What types of | Events can we typically detect through interactions with a (GUI) interface? |
|----|-------------------|---|
| 6) | | e keyword instanceOf signify in a java program? How can instanceOf be distener could be directed events from several different types of GUI object? |
| 7) | i. ii. iii. | of Swing, How do you link each of the following Button CheckBox Radio Button Image |
| | to an | ActionEvent |
| | | MouseEvent |
| | vii. | MouseMotionEvent |
| | viii. | KeyEvent |
| | | |

| 8) | What is an Adaptor? Give an example of how an Adaptor can be used what is the advantage of using an Adaptor over a Listener? |
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| 9) | In the context of using a set of JRadioButtons, explain how they would first be constructed, then how you would setup a Listener to respond to when they are changed. Assume that when a new JRadioButton is selected, a different message is outputted to the System console (i.e. standard output). |
| 10) | What does it mean to get the "focus" in a Java Swing application? How does one assign focus to a particular JFrame or a specific JComponent? |
| 11) | Outline at least two different approaches to setting up a Listener for a KeyEvent |
| 12) | In the context of KeyEvents, what are "modifiers"? How can they be accessed? |
| 13) | How do MouseMotionEvents differ from MouseEvents? How do we process these? |