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| Instructor | **Professor Papademas** | Due Date |  |

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| Part | **1** | **2** | **3** | **4** | Total |
| *Maximum Points* | **25** points | **25** points | **25** points | **25** points | **100**G101010 pointsG |
| ***Your Score*** |  |  |  |  |  |

**Textbook Reading Assignment**

Thoroughly read Chapter(s) pertaining to Graphical User Interfaces in your Java textbook.

**Part 1 Glossary Terms**

Define, in detail, each of these glossary terms from the realm of computer programming logic and design and computer topics, in general. If applicable, use examples to support your definitions. Consult your notes or course textbook(s) as references or the Internet by visiting Web sites such as:

[**http://www.askjeeves.com**](http://www.askjeeves.com) or [**http://www.webopedia.com**](http://www.webopedia.com/)

**(a) Swing Components**

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**(b) Radio Buttons**

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**(c) Check Boxes**

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**(d) Image files – distinguish between png, bmp, gif, jpeg.**

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**(e) JPanel versus JFrame**

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**Part 2 Start with a Garden GUI**

You have been contacted by a client who owns a garden shop. The client would like an application where the customers can choose from garden supplies (rakes, garden hose, etc.), various plants (flowering as well as non-flowering plants, such as ferns).

Give the code to create N W E W and Center Panel Buttons: North will feature Contact Information when pressed; South will feature Garden Supply Products with three check boxes (one for garden tools, one for fertilizer, and one for pest control) when pressed;

East will feature Gardening tips; West will feature all plants sold at the facility, with three radio buttons (one for flowers, one for grass, one for trees).

Center will contain a combo box which lists the following choices: garden tips, garden supplies, garden plants – flowers, garden plants – fruit trees, garden plants – vegetables

And how about an image or two! Find at least one image per panel that is pertinent to the subject matter of the main NEWSC buttons (that’s five images!).

Have fun gardening.

Functionality is NOT required (don’t worry about listeners)! Just design for practice with GUI components!

Provide a snapshot of the output of your GUI.