

## Homework #2

**MCIS 5103: Advanced Programming Concepts**  
**Instructor: Dr. Justin L. Rice**  
**Due Date: 9/28/2016**

Create a GUI front end for Homework #1. See details below.

1. Create a GUI that has two JRadioButtons which allow a user to select between an employee and a manager. **(20 points)**
2. Create a GUI that pops up if an employee is selected. This new window should contain JLabels with JTextFields that allow the user to enter in all the employee's relevant information - e.g. Name, Title, Age, and Salary. Use the same inputs from the **Jane Doe case** in Homework #1. The new window should also allow the user to raise the employee's salary by a certain percentage - JTextField (% Increase). Use the employee raiseSalary(int percent) method from Homework #1. Lastly, the new window should include a calculate button which computes and outputs the new salary when pressed. In this case, the new salary would be 82500.0. **(20 points)**
3. Create a GUI that pops up if a manager is selected. This new window should contain JLabels with JTextFields that allow the user to enter in all the manager's relevant information - e.g. Name, Title, Age, Years of Experience, Highest Degree Earned, Salary, and Promotion Bonus. Use the same inputs from the **John Doe case** in Homework #1. The new window should also allow the user to raise the manager's salary by a certain percentage - JTextField (% Increase). Use the manager raiseSalary(int percent) method from Homework #1. Lastly, the new window should include a calculate button which computes and outputs the new salary when pressed. In this case, the new salary would be 115000.0. **(20 points)**
4. Create a GUI error message that pops up if the user enters invalid information into the GUI from question #2. **(20 points)**
5. Create a GUI error message that pops up if the user enters invalid information into the GUI from question #3. **(20 points)**

**Develop a report** that contains **an overview** of the source code. It should also include print screens of the GUIs from each scenario mentioned above. **Copy source code and paste in the report's Appendix – similar to what was provided in the Homework #1 assignment. Note, all responses should be contained in ONE WORD or PDF document. Other formats will not be accepted.**