**CSC 1302: PRINCIPLES OF COMPUTER SCIENCE II**

**Lab 12**

**How to Submit**

Please submit your answers to the iCollege ‘assignment’ dropbox for your lab, once you have completed. Failure to submit within your given time period will result in a **ZERO FOR THIS LAB. NO EXCEPTIONS**.

Write a client program ***ClientSorting2*** and in the ***main*** method:

1. Write a modified version of the selection sort algorithm (*SelectionSorter()*) that sorts an array of strings (alphabetically) rather than one of integer values. Print the array before it is sorted in the ***main*** method, then after it is sorted in *SelectionSorter()*.
2. Write a modified version of insertion sort algorithm (*InsertSorter()*) that sorts an array of strings rather than one of integer values. Print the array before it is sorted in the ***main*** method, then after it is sorted in *InsertSorter()*.
3. Write a modified “dual” version of the selection sort algorithm that selects both the largest and smallest elements on each pass and moves each of them to the appropriate end of an integer array. Print the array before it is sorted in the ***main*** method, then after it is sorted in the new combination method.