**Object-Oriented Programming II Spring 2017**

**CIS 9410**

# Programming Assignment V

For this assignment you are to add to the **Inventory** class file input and output functionality, then to use this extend the inventory management system to use this added functionality.

The following functions should be added to the **Inventory** class:

**void Save(String filename);**

This function saves to the file specified by **filename** all of the data necessary for the later recovery from the file of an **Inventory** object, including all of its associated **InventoryItem** data. If **filename** does not include an extension, a default extension of *.inv* should be used.

# bool Load(String filename);

This function loads from the file specified by **filename** the data for an Inventory object, and all associated **InventoryItem** data previously saved to that file. (As with the **Save()** function, if **filename** does not include an extension, a default extension of *.inv* should be used.) The loaded information is then used to reconstruct the **Inventory** object, and its associated **InventoryItem** data. (Any data currently in the **Inventory** object should be removed before the data from the file is used to reconstruct the **Inventory** object.) If the file does not exist, then the function returns the value **false**. Otherwise, it returns the value **true**.

These added Inventory class functions should be made available in the inventory management system by adding the following two menu options?

**X -** (*store*) Prompts user to input a file name that is used to specify a file to which the inventory data should be stored. Once the operation has been completed, a message to that affect should be output.

**Y** - (*load*) Prompts user to input a file name from which previously saved data is to be loaded. A message should be output user indicating whether or not the requested load was successful.

Due Date: May 11, 2017