# Application Engineering INFO 5100

# Assignment 3 – Due Date Feb 9th 23:59

**Problem 1**

**Problem 1** is built on top of lab 4. You can wait until we complete lab 4 to work on this.

The objective of this assignment is to practice how to initialize a group of complex objects. You are expected to write a simple java class apart from the regular business classes to populate your application with information when you execute the application. This class should 5 make entries to your supplier directory (Dell, HP, Toshiba, Apply, and Lenovo). For each of these suppliers, you are to create a product catalog of 10 products. To verify that you initialized and linked the objects correctly, you must print a report listing each supplier along with a list of their products. This report can take the form of simple print statements [System.println()] on the output window of your Netbeans project.

**Problem 2**

**Persons, Patients, Vital Signs & Graphics**

The objective of this assignment is to work with multiple objects and integrate charting tools into your java application. You are responsible for showing how you do user navigation and the ability to move from a person focused jpanel to its associated patient focused one. The ability to move back to where you came from is also important. This is a creative project so you will be judged on the professional look of your application.

The use cases that you are expected to support in this assignment are the following:

1. Manage person profile
   1. Create a person profile
   2. Using search or table selection, select a person and view person record in detail
   3. Browse Person list
   4. View and Update Person profile
2. Manage Patient Profile

* 1. The user should be able to search for a specific person and create a patient profile if the person doesn’t have a patient profile created yet (Should be allowed to create a patient profile only once).
  2. In subsequent searches (view person details page), a person record with patient profiles will include summary of patient information such as patient id and a list of vital signs if the person under consideration is a patient.
  3. The user should be able to create vital signs for the patient and maintain them as a history of vital signs. The vital signs will include all the ones we defined before in the table showing the measures and their normal ranges.
  4. One should be able to update a vital sign if it was wrong.

C. Reporting

1. The user selects a patient through a search.
2. For the selected patient do the following:
   1. Display all the vital signs in table format allowing the user to see trends in the person’s health. For example, the history of BP over must be shown in a graph nicely displayed. One report you could do is all vital signs charts in single jpanel.
3. Allow the user to go back to do a search for another patient and display their vital signs graphically as well.
4. Ideas are welcome and will be rewarded.

**Submission Instructions:**

Create a folder called as “Assignment\_3”. Inside it have 2 folder – “Problem\_1” and “Problem\_2”. The rest of instructions remains the same.