**IMD-3006, Assignment 5**

**Due: November 18, 2020, 11:59pm**

**Title**

Linked Lists

**Description**

Write a program that registers students in a course without using any array. The program has the following features:

* It is text-based (console application) if in C/C++ or Python. If in JS/HTML, then do not use any canvas. Use standard text input/output elements.
* For each student, the program needs the following information:
  + Name
  + Student ID (1000-9999)
  + Program ID (10-99)
* The program stays in a loop and asks for commands (note that HTML pages implement the loop for you, so no need to create a loop in your JS code):
  + Add new student
    - Ask for the above data, then add the student to the list
  + Remove a student
    - Ask for student ID, find it, and then remove from the list
  + List all existing students
    - Print all info for all registered students in the course
* The students have to be added to the list based on their Student ID, so the list is always sorted from low ID to high. This means you do not add the new items to the end of the list but go through the list find the right place and insert the new item there.

**Notes**

* Make any assumptions necessary about the details that are not provided.
* Start with Task-7a sample solution.

**Submission Requirements**

* Submit a single source file with the following comment sections at the start:
  + Your name
  + Brief description of classes and functions

**Evaluation**

* Documentation section 1
* List item class 1
* Insert item code 1
* Remove item code 1
* Data entry loop 0.5
* List report 0.5