

CISC-124
Winter 2018
Assignment 1 Clarifications

I - User Interface and Program Flow

a) **Simulate Course Marks**

Student numbers should be randomly generated in the range 10000000 to 99999999 (this is stated in the constructor for class Student, so we always get 8-digit student numbers).

b) **View/Update Student Marks**

If the user enters an invalid student number, or the number corresponds to an inactive Student object (i.e., object's **status** attribute is set to **false**), the program will display the message: **[entered student number] is invalid**, and will return to and display the selection menu. Otherwise, it will display the message: **View or Update? (V/U):**, and will wait for the user to enter a selection.

If the user enters V, the program will display all the course marks for the selected student.

If the user selects U, the program will display the prompt **Mark Type? (A1, A2 or FE):** and will wait for a selection from the user. Once the user has input one of the possible options, the program will display the selected mark as: **[Mark Type] is [mark]**, and will display the prompt **Updated Mark (0 – 100):** and will wait for input from the user.

If the user enters an invalid mark, the program will display the message: **<entered value> is an invalid mark**, and will return to and display the main selection menu.

For this assignment, you may assume that the user will enter an integer when prompted for an updated mark.

c)

If the class list is empty, the **Run Mark Statistics** command should produce an empty report: only report headings, no AVERAGES, no highest mark, no lowest mark.

You may replace "Press any key to continue" with "Press Enter to continue"

II - Classes

The **updateMark** method in the Student class does not need a **weight** parameter.

The **setStudentNumber** method is an appropriate method to have in this class, even though we do not explicitly use it in this assignment. Defining this method contributes to class reusability. Since **setStudentNumber** tests the student number for validity, it makes sense for the constructor method of **Student** to call **setStudentNumber** to validate a student number passed at object creation time.

IV - Marking Scheme

"(" is just a typo. Please ignore it.