**Assignment 1**

**FWD 122 Advanced Programming**

**This is a warm-up assignment to help you understand the difference between POP and OOP approaches. Task 1: Using a procedural-orientated programming approach, write a python program to perform the following tasks (15 points)**

Q1-1: Prompt the user for the information below and store the information in a dictionary. Note that number of students is specify by the user.

* Student’s id. (unique number )
* Student’s name
* Department (CS,SE,IT)
* Student’s GPA

Q1-2: Write a function to display the information of all students in the following format.

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Index |Student Id | Student Name. | Department | GPA

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Q1-3: Write a function that displays the record of the student with the highest and Lowest GPA.

Q1-4: Write a function to modify the student's GPA; prompt for student id.

Q1-5: Write a function to add new student's records; prompt for the number of new records.

**Task 2: Using object-orientated programming approach, write the basic structure (Class, attributes, behaviors) of the program above (5 points).**

# Assignment guidelines

* **Save both tasks in separate files: task1.py and task2.py.**
* **At the beginning of each file, type your name and your student id (use comments)**
* **Use naming convention and document your source codes.**
* **This is not a group assignment; it is an individual assignment. Please do not copy your friend assignment.**
* **Submit your assignment by Next Friday, 15/Sep/2023 at 11:59 pm.**
* **Zip the two python files in a folder and name it as (As1\_yourStudentId\_OOP). For example, if your student id is 55555, your zip file should be “As1\_55555\_OOP”**

• **Upload the file on**

[**https://docs.google.com/forms/d/e/1FAIpQLSdKPq\_TdkNJryAXf8WhyBntj4LTVvmtQ\_SZr7bezjSNCIWTpQ/viewform?usp=sf\_link**](https://docs.google.com/forms/d/e/1FAIpQLSdKPq_TdkNJryAXf8WhyBntj4LTVvmtQ_SZr7bezjSNCIWTpQ/viewform?usp=sf_link)