

MIT 1

Programming Methods I (Python)

Exercise 2 of 6

Instruction: Attempt all Questions.¹

- 2.1.** Write a program that reads names and marks of n students then prints the names of the students with the highest and lowest marks. (n is entered by the user and you should use at least one function).

Sample for n = 3

```
Enter student name: John
Enter student score: 89
Enter student name: Joel
Enter student score: 5
Enter student name: Lia
Enter student score: 75
```

```
Maximum Student Mark: 89
Student Name: John
```

```
Minimum Student Mark: 5
Student Name: Joel
```

- 2.2.** Write a function which takes a string as input, and tells you whether that string is a valid email address. A valid email address should contain the character @, and not have any spaces with at least one period(.) with minimum of 2 characters after the period(.).
- 2.3.** The final grades for Programming Methods course unit are recorded in a file final.txt. Write a Python program that reads the grades from the file final.txt and analyzes grades by determining the average grade, the number of grades above the average and the mode modal grade.

¹ **Rubrics:** Marks awarded on the basis of: Pseudo Code, Quality and Complexity of the Solution, Comments and Documentation, Ease of Use and Navigability, Overall Solution Integration and Presentation!