**ASSIGNMENT 3**

# 1. INSTRUCTIONS

The goal of this exercise is for you to demonstrate your ability to design and write an Object-Oriented Program from a given case study.

# 2. SUBMISSION GUIDELINES

* All ﬁles should contain your name(s) in a comment at the top of the ﬁle.
* The project should be stored in a Git repository.
* The submission deadline is 19/12/2018 23:55.

# CASE STUDY:

From the given list of students with their respective marks i.e. Continuous Assessment (CA) and University Exam (UE) contributing to 30% and 70% of the total assessment respectively.

Design and implement an object-oriented program in JAVA capable of processing the following:

* Grades scored by each student.
* The average marks scored by the class.
* Number of students who scored below the pass grade.
* The standard deviation of the class.
* The highest and lowest marks scored by the students.

**N.B:** A bonus will be given for incorporating a relational database as part of your solution.

**Grading Scheme:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **A** | **B+** | **B** | **C** | **D** | **E** |
| 70% - 100% | 60% - 69% | 50% - 59% | 40% - 49% | 35% - 39 | 0% - 34% |