Today you should work independently to realise how much you have learnt so far.

Objectives of today's lab:

- Practice more on UML Use Case and Class Diagrams

Please read carefully all information contained within the following passage of text.

You are required to develop an information system for the UWE Faculty of Environment and Technology. The requirements specification is as follows. The faculty has one or more departments. Each department has a lecturer who is the head of the department. A lecturer can be the head of no more than one department. In a department, every student may attend any number of modules and every module may have any number of students. For every module there is at least one lecturer. Each lecturer may teach any number of modules. The desired system enables lecturers and data entry operators to input students' marks electronically and to produce grading based on the total marks of assignments, courseworks, written exams etc, and the students can view their results. The system also allows the registrar to maintain lecturer, student, and module information. This includes adding, modifying, and deleting lecturers, students, and modules from the system.

Exercises

Use Case Diagram

1. Identify the actors (*at least 3*)
2. Identify the use cases for each actor (**at least six**)
3. Draw the use-case diagram
4. In your diagram you should show *at least one* <<extend>> and **one** <<include>> relationship.

Class Diagram

5. Identify the possible classes (**at least 4**)
6. Identify their relationships
7. Draw the UML class diagram
8. In your diagram, you should show *all the appropriate* relationships.