**Objectives:**

At the end of this session, student should able to

1. Identify object(s) from the given case study
2. Identify attribute(s), method(s) and relationship(s) from the identified class.
3. Construct a class diagram based on identified items in (1) and (2).

**Instructions:**

1. This work should be done individually. But you are allowed to discuss with your other colleagues.
2. All your assumption and work (including your calculation) must be clearly stated in this lab sheet.
3. You are required to develop your report using Microsoft Words and Rational Rose.
4. Upload your answer at Moodle after the lab session together with hardcopy a day after lab session (Monday) to your lecturer.

**Questions:**

**Case Study 1**

A company has a number of employees. The attributes of employees including employee ID, name, address and birth date. The company also has several projects. Each project is tagged by project name and start date. Each employee may be assigned to one or more project, or may not be assigned to any project. However, each project must have at least one employee to handle it.

An employee salary rate may vary by project and the company wishes to record the applicable salary rate for each employee when assigned to a particular project. At the end of each month, the company mails a cheque to each employee when assigned to a particular project during that month. The cheque amount is based on the salary rate and the hours logged for each project assigned to the employee.

**Case Study 2**

Develop a class diagram that represents the ATM machine process. You may consider at least three (3) activities that we may attempt with ATM machine (e.g: withdraw cash money, money transfer and deposit cheque).