

## Tutorial 10: Software Evolution

### Instructions:

**Prepare the answers with a PowerPoint file. State your names and student ID on the file.**

Q1. Explain why a software system that is used in a real-world environment must change or become progressively less useful.

Q2. Briefly describe the three main types of software maintenance.

Q3: With reference each of the following cases, identify the type of software maintenance that they are relating to:

- Case 1: A POS (point-of-sales) system is not working in the way it is expected due to some faulty logic flow.
- Case 2: Modifying an ERP (Enterprise Resource Planning) program to include a new payment settlement feature in the software system.
- Case 3: Suppose you are managing a web application and you found that it is not compatible with a new version of Microsoft web browser. You then try to modify the web application to address this compatibility issue.

Q4. What are the major activities involved in re-engineering process?

Q5. Identify and discuss the essential conditions for software re-engineering to be successful.