



National University
Of Computer and Emerging Sciences

Spring-2025

Assignment# 01

Max. Marks: 10

Course Code: SE-4001

Course Title: Software Re-Engineering

Question: Analyze a legacy system which need maintenance in order to get up-to date:

- Lines of code (LOC) should be more than 1 KLOC
- Classes should be more than 10.
- It must be Object-Oriented project.
- Project can be desktop or web-based application.
- Any programming language is admissible.
- The intention of this assignment is to have a better understanding of code which will be demonstrated after the submission
- The deliverables include: Highlighted replicated code, cohesion and coupling issues in code, cost-benefit analysis, resources required (personnel, tools, and budget), proposed complete replacement of existing legacy system with more modern solutions.
- Submission Date is **10th March 2025**.

Good Luck!