**CSC241 – Object Oriented Programming**

Semester: Fall 2025

BCS-B

Lab Assignment 1

**Assignment Date:** 12-09-2025  
**Due Date:** 12-09-2025  
**Maximum Marks:** 5  
**CLO4:** Implement a small module utilizing Object Oriented Design

Description:

In this lab, you are required to design and implement a simple object-oriented module in Java. The assignment consists of only one task. You will create a class named Product that must include four attributes, each of a different type. For instance, you may define attributes such as a String for the product name, an int for the product ID, a double for the price, and a boolean to indicate stock availability. The class should demonstrate constructor overloading by providing both a default constructor and a parameterized constructor that initializes all attributes. In addition to the constructors, proper getter and setter methods must be implemented for each attribute, while a display() method should be provided to print all details of the product in a well-formatted manner.

To test this class, you will create an App class containing the main() method. Inside the main method, you are expected to create multiple Product objects using both the default and the parameterized constructor. Some of the attributes of these objects should then be updated using the setter methods, after which you will display the product details before and after the updates to clearly demonstrate the changes.

The assignment must follow a specific folder structure. A main folder named lab02 should be created, which will contain two subfolders: src and out. The src folder will contain your Java source files (Product.java and App.java), while the out folder will contain the compiled class files generated after successful compilation. You are required to include in your submission the exact commands that you used for compilation and execution. For example, you may compile the code by navigating into the src folder and running javac -d ../out Product.java App.java, then moving into the out folder to execute the program with the command java App.

For submission, you must upload the complete lab02 folder, containing both the src and out subfolders, to a public GitHub repository. The link to the repository should be shared through the provided Google Form. In addition to the GitHub submission, you should also compress the lab02 folder into a ZIP file and upload it along with the form. The submission link is: <https://forms.gle/CDmrTkQScCevzvEC7>