CSC241 – Object Oriented Programming

Semester: Fall 2025

Lab Assignment 1

Assignment Date: 10-09-2025
Due Date: 10-09-2025
Maximum Marks: 5
CLO4: Implement a small module utilizing Object Oriented Design

Description:

In this assignment, you are required to design and implement a simple object oriented module in Java. The task is divided into two parts. In the first part, you will create a Student class with three private attributes: name, email, and cgpa. Along with these attributes, the class should include a display() method that prints all three values in a clear and formatted manner. A second class named Demo should also be created, containing the main() method. In this method, you must create two Student objects with different attribute values and call the display() method for each object. Both of these Java files should be placed inside a folder named task1. At the top of each file, add a comment that includes your full name and registration number.

In the second part of the assignment, you will extend your design by introducing a parameterized constructor into the Student class, along with proper setter and getter methods for all attributes, while keeping the display() method intact. In the Demo class for this part, create three Student objects with different values, display their details, then update some of their attribute values using the setter methods, and display them again to show the changes. These updated files should be placed in a folder named task2.

When you have completed both tasks, upload the two folders to a public GitHub repository. Share the link to your repository through the provided Google Form, and also compress (zip) both source folders and upload the ZIP file along with the form submission.

This assignment will be graded out of five marks. Marks will be awarded for correct implementation of object-oriented principles such as encapsulation, constructors, and method usage, as well as for proper formatting, coding style, and adherence to submission instructions.

Submission Link. : https://forms.gle/3ZgYz7zUvuX8qoXM6