



Assignment No. 01(Graded)
Semester: Spring 2026
CS304P- Object Oriented Programming (Practical)

Total Marks: 20
Due Date: April 30, 2026

Uploading instructions:

- Your assignment should be in .doc or .docx files (any other formats like scan images, PDF, zip, rar, and bmp, etc. will not be accepted).
- Save your assignment with your ID (e.g. bc000000000.doc).
- No assignment will be accepted through email.

Rules for Marking:

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after the due date.
- The submitted assignment does not open, or the file is corrupted.
- Your assignment is copied from the internet, handouts, or another student.
(Strict disciplinary action will be taken in this case).

Lectures Covered:

This assignment covers **Labs # 1 to 3**

Note: Submit your solutions in a .doc or .docx file.

Assignment No. 1

Objectives:

The objectives and learning outcomes of this assignment are to:

- Learn the main objects.
- Learn the necessary attributes and behaviors associated with each object.
- Learn the relationships among objects.
- Construct a comprehensive class diagram.

Learning Outcomes:

After completing this assignment, students will be able to:

- Develop a UML class diagram.

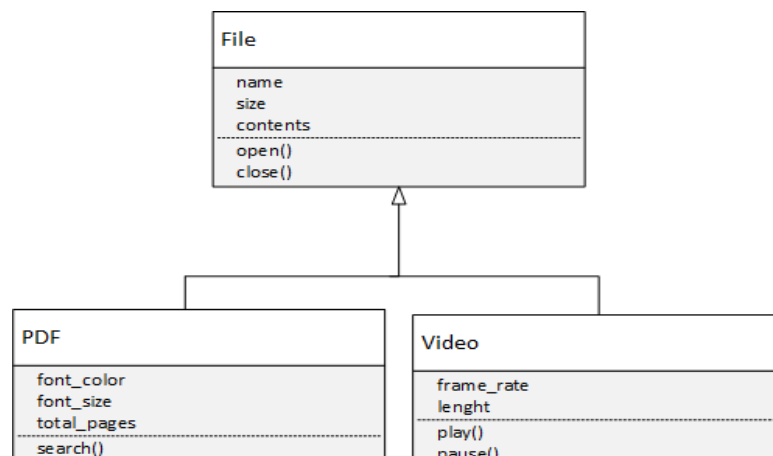
Problem Statement:

Suppose a hospital called “**Patient Care Hospital**” is operating in Pakistan to serve the patients. The private room and the general ward are divisions of this hospital. The general ward is shared by patients who need a similar kind of care. The private room is allotted to the specific patients. The hospital has many doctors who are organized into teams. There are two types of doctors working in this hospital: physicians and surgeons. A patient is treated by a specific doctor as per the requirement. Each patient has a patient record file. Doctors can view the patient's record file whenever necessary. There are nurses associated with each general ward and private room to take care of patients. A nurse can maintain the patient record file.

As a student of the OOP (Object-Oriented Programming) course, you are required to perform the following task using the above scenario.

Develop a UML class diagram by identifying classes (objects), their attributes (Characteristics), and Operations. (20 marks)

Sample output for the program is given below; your solution output should be like this.



Best of luck!

NOTE: Do not put any query on MDB about this assignment, if you have any query then email at cs304p@vu.edu.pk. Furthermore, if any student is found cheating by any other student or from online forums then he/she will be awarded ZERO right away and strict disciplinary action will be taken against the student.

Deadline: Your assignment must be uploaded/submitted on or before April 30, 2026.