COMSATS University Islamabad, Abbottabad Campus

**Department of Computer Science**

**Assignment # 2[CLO2]**

**Subject: OOP Class: BSE 3B**

**Instructor: Iqra Sarfraz**

**Due Date:** 2nd May,2024

**Instruction:** *Kindly submit the programs for the assignment on the CUI portal in a zip file.*

**Problem 1:**

(The Person, Student, Employee, Faculty, and Staff classes)

Design a class named Person and its two subclasses named Student and Employee. Design two more classes; Faculty and Staff and extend them from Employee. The detail of classes is as under:

A person has a name, address, phone number, and email address.

A student has a status (String)

An employee has an office, salary, and date hired. Use the Date class to create an object for date hired.

A faculty member has office hours and a rank.

A staff member has a title.

Create display method in each class

**Problem 2:**

Imagine a publishing company that markets both book and audio-cassette versions of its works. Create a class publication that stores the title and price of a publication. From this class derive two classes:

i. book, which adds a page count and

ii. tape, which adds a playing time in minutes.

Each of these three classes should have set() and get() functions and a display() function to display its data. Write a main() program to test the book and tape class by creating instances of them, asking the user to fill in their data and then displaying the data with display().