

# Enterprise Application Development (CS – F19)

## Home Work 01

**Deadline: Sunday, 30<sup>th</sup> October 2022, 11:59pm**

**Total Marks: 40**

### **Submission Guideline:**

You are required to upload your solution (compressed file) on Google Drive and email the link.

### **Objective:**

The objective of this homework is to:

- 1- Get Familiar with Class Libraries
- 2- Input & Output to Console
- 3- Command Line Arguments
- 4- ToString Method
- 5- File Handling

### **Problem 01:**

#### **Title: Patient Management System**

In this Homework you are going to help a hospital in managing their Patients data. They used to manage it traditionally, now you have to implement a way to record and manage the data Virtually.

#### **Task 01:**

**(5 Marks)**

Make a class library named "PatientClassLibrary" and add a class named Patient with the following attributes.

- a. Id
- b. Name
- c. CNIC
- d. Phone Number
- e. Disease
- f. isAdmitted

#### **Task 02:**

**(5 Marks)**

Create a function to Add a Patient in the list. Also add the Patient data in a file. Create patient object using Object Initializer Method.

AddPatient(patient)

#### **Task 03:**

**(5 Marks)**

Create a function to Delete a Patient from the list. Take patient id in parameter.

DeletePatient(id)

**Task 04:****(5 Marks)**

Create a function to Update a Patient's record. Take patient id and Patient object in parameter.

UpdatePatient(id, updatedPatient)

**Task 05:****(5 Marks)**

Create a function to search and display a Patient's record from list. Take patient Id in parameter. Use toString() method.

SearchPatient(id)

**Task 06:****(5 Marks)**

Create a function to Read all Patient's record from file and display it.

DisplayAll()

**Task 07:****(5 Marks)**

Create a menu in main function that takes user choice and call respective function.

```
1. Add Patient
2. Delete Patient
3. Update Patient
4. Search Patient
5. Display All Patients
Enter your choice: _
```

**Problem 02:****(5 Marks)**

Create a program which takes the patient class attribute as command line arguments and display them on console (using toString() method).

Output would be like this:

```
Name: Ahmad Ashfaq
CNIC: 35200-1234567-4
Phone: 0900-78601
Disease: Fever
Currently Admitted: YES
```

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