Instructions

- You must have installed Microsoft Visual Studio 6.0/Microsoft Visual Studio .NET 2003/Microsoft Visual Studio .NET 2005 on your machine to try the programs.
- To develop the C++ program on Microsoft Visual Studio 6.0 please read the handout "How to create your first C++ program using Visual C++ 6.0".
- To develop the C++ program on Microsoft Visual Studio .NET 2003 please read the handout How to create your first C++ program using Visual C++ .NET 2003.
- To develop the C++ program on Microsoft Visual Studio .NET 2005 please read the handout How to create your first C++ program using Visual C++ .NET 2005.

Exercise 01:

Define a structure **Patient** having following data members:

- Patient id (use integer variable to store the patient id)
- Patient name (use char array of 50 elements to store the patient name)

Develop a C++ program to test the Patient structure. Declare two variable of structure Patient namely p1 and p2. Assign relevant values to p1. The program then asks the user to enter the book data which will be stored in p2 and prints the data stored both in p1 and p2 on the console separately.

Exercise 02:

Define a structure **Book** having following data members:

- ISBN (use char array of 50 elements to store the book ISBN)
- Book Title (use char array of 50 elements to store the book title)
- Book Author (use char array of 50 elements to store the author name of the book)
- Publish Date (use char array of 50 elements to store the publish date of the book)
- Price (use double variable to store the book price)

Develop a C++ program to test the Book structure. Declare two variable of structure Book namely b1 and b2. Assign relevant values to b1. The program then asks the user to enter the book data which will be stored in b2 and prints the data stored both in b1 and b2 on the console separately.

Exercise 03:

(A) Create two different arrays of Patient structure each capable of holding data of not less than ten patients.
(B) Initialize first array with relevant data.
(C) Add a feature that would allow the user to enter the data for ten patients.
(D) Add a feature that would print the data of ten patients record-by-record and in tabular format. Use setw function to format the data in tabular format.
(E) Create a separate C++ program for this exercise.

Exercise 04:

(A) Create two different arrays of Book structure each capable of holding data of not less than ten books.
(B) Initialize first array with relevant data.
(C) Add a feature that would allow the user to enter the data for ten books.
(D) Add a feature that would print the data of ten book record-by-record and in tabular format. Use setw function to format the data in tabular format.
(E) Create a separate C++ program for this exercise.

Instructions:

1. Submit your assignments to Mr. Adeel as per the schedule announced by him.
2. No assignment shall be evaluated/accepted after the due date.
3. Copy assignments will be cancelled.
4. There will be an individual viva of this assignment. Your evaluation is strictly based on your performance in the viva.
5. Non-professional behavior during the viva may lead to assignment cancellation.