CO253: Mini Project (C Programming)

Project Title: **COVID-19 Patient Management System**

Deadline: 20th of January 2022

Write a C program that can handle registration of COVID-19 patients in a hospital ward.

1. The system should record critical data of each patient such as,
   - NIC number
   - Name
   - Age
   - Gender
   - Admission date
2. There should be options to
   - Add new patients
   - Delete patients
   - Show information of a patient when his/her NIC number is given
   - Show information of all the patients in the system

   In addition to the above mandatory options, you are free to add any other options as you like.
3. You can keep the patient management system volatile (The data is lost when the program is stopped). No need to write patient data to a file or a database.
4. You are encouraged to use an array-based implementation to store patient data.
5. The UI should be command-line based.

Instructions:

- Start by creating the UI (See the sample UI below).

Figure 1: Main UI

- Next, create the structure to store a patient record.
  Example:

```
typedef struct {
        int NIC;
        char fullName [50];
        int age;
        char gender [10];
        char admissionDate [20];
} patient_t;
```

- Create separate functions for each operation (Add, Print, delete) and add them to UI.
- Provide details of your implementation by adding comments to the source code where necessary.
- Submit your source code through the link provided on the course page before the deadline.