

CO253: Mini Project (C Programming)

Project Title: **Contact Management System**

Deadline: 9th of June 2023

Write a C program to implement a contact management system.

1. The system should record essential data of a contact such as,
 - Name
 - Phone number
 - Address
 - Email
2. There should be options to
 - Add new contacts
 - List all contacts
 - Search contacts based on name and phone number
 - Delete contacts

In addition to the above mandatory options, you are free to add any other options as you like.

3. You can keep the contact management system volatile (The data is lost when the program is stopped). No need to write contact data to a file or a database.
4. You are encouraged to use an array-based implementation to store contact data.
5. The UI should be command-line based.

Instructions:

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

```
-----  
CONTACT MANAGEMENT SYSTEM  
-----  
0. Quit  
1. Add a new contact  
2. List all contacts  
3. Search for contact  
4. Delete a contact  
-----  
Enter Option [0-4]  
-----
```

Figure 1: Main UI

- Next, create the structure to store a contact.

Example:

```
typedef struct {  
    int phone;  
    char name [20];  
    char address [50];  
    char email [30];  
} contact_t;
```

- Create separate functions for each operation (Add, list, delete) and add them to UI.
- Provide details of your implementation by adding comments to the source code where necessary.
- Prepare a 5-10 min video demonstration for your project, showing its features and capabilities. You need to clearly explain what you have done.
- Submit your source code and video demonstration through the links provided on the course page before the deadline.