

OOP Lab Task 07

Scenario: You are developing a contact management software that allows users to keep track of their contacts. Each contact in the software consists of a person's name, phone number, email address, and date of birth. You want to implement this system using object-oriented programming principles, with a composition relationship.

Here, the class Contact is composed of n numbers of contacts(array of contacts). And the total count of contacts(size of array), each contact is composed of the object of date of birth class plus some other data members like name, phone_no, and email.

Also design a method in the ContactBook class to print the names of all contacts in the book who have a birthday in a specific month.

Create a class diagram in Draw.io for the whole scenario. You must submit the cpp file and also the png file of the class diagram.

Note: Your program must fulfill the criteria of composition.

```
enter name
ali
enter Phone No
03004955038
enter email
ali@gmail.com
enter day
2
enter month
2
enter year
1999
```

```
Name: saad
Phone No: 0300482248
Email: saad@gmail.com
Date of Birth: 29/1/1999
Name: ali
Phone No: 03004955038
Email: ali@gmail.com
Date of Birth: 2/2/1999
```

```
Contacts with birthdays in month 2:
Name: ali
```