

# Creative Software Programming Assignment#3 (week-3)

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Every assignment will be announced on **Thursday** and should be submitted by next **Tuesday**.

In this week **Handed out will be Sep 17, 2020, Due Sep 22, 2020**

## 1. Contacts Manager

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We want to develop the address book we created last assignment(week-2, contacts).

Refer to the given skeleton code and complete the program to work correctly.

The assignment directory structure should be follow:

- week-3
  - contacts
    - contacts.cc // Code you need to complete
    - contacts.h // Definition of contacts type
    - student.h // Definition of student type
    - utility.h // memory allocator

You only need to edit the `contacts.cc` file.

Find the commented `TODO:` flag in the code to complete the function.

The code you implement should satisfy the following comment of each function.

The function signature to be implemented is as follows.

```
bool add(student_t student);
bool add(int id, std::string name);
bool add(int id, std::string name, std::string phone);
bool add(int id, std::string name, std::string phone, std::string mail);

bool remove(int id);

bool update(int id, std::string name, std::string phone, std::string mail);

student_t find(int id);

size_t size();
```

