

## Title

Manage student

## Background Context

NA

## Program Specifications

Create a program to manage students, student information includes:

- Student code
- Student name
- Date of birth
- Learning point

Student information is input from keyboard and stored in a text file name "Student.txt"

The program allows user enter new students, look up student and display student list.

### **Function details:**

1. Main menu for program as below:

1. Enter student list
2. Look up student
3. Display student list
4. Exit

The program will implement corresponding function base on the number user input, user press 1 then the program implement function for menu "Enter student list", press 2 then the program run "Look up student", press 3 the program run "Display student list", press 4 then exit.

Menu must be display the first when running the program.

2. Enter student list: this function is implement when choose menu "Enter student list", student information is stored in a text file name "Student.txt". Student list in the text file must be sorted in student name ascending order.
3. Look up student: this function is implement when choose menu "Look up student", look up student base on student name input from keyboard, display found student information on the screen
4. Display student list: this function is implement when choose menu "Display student list", all students from the file will be display on the screen.

### **Expectation of User interface:**

Menu of the program display the first must be as below:

1. Enter student list
2. Look up student
3. Display student list
4. Exit

Please choose menu (1 – 4):

- When user press 1 the program display:  
*Enter new student:*  
*Student code: SV001*  
*Student name: Ana*  
*Date of birth: 11-Jan-1991*  
*Learning point: 3.7*
- When user press 2:  
*Please enter student name: Jonh*

If found then display student information name jonh:

*Student code: SV001*

*Student name: Jonh Mark*

*Date of birth: 12-Jan-1990*

*Learning point: 4.3*

- When user press 3:

*Student list:*

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*Student code: SV001*

*Student name: Nam*

*Date of birth: 11-Nov-1994*

*Learning point: 3.5*

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*Student code: SV002*

*Student name: Binh*

*Date of birth: 02-May-1994*

*Learning point: 3.6*

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- When user press 4: exit the program

## Guidelines

- When store student information in the text file should be setup mark-point to separate data between students, for example: Mark-point is '#'

<http://www.cplusplus.com/doc/tutorial/structures/>