# Labsession6:SingleLinkedList:Part2

## Objective

The objective of **lab session 6** is

- To write a full C++ program for the given problem using single linked list
- To start the course project with the given sample problems

### **Pre-lab Exercise**

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### In-lab Exercise

- 1. Write a C++ program to implement library management system, which helps to maintain a book-list in a small library. The book information contains the title, author, publish year, and ISBN code. It provides functions to: add a book delete a book based on the ISBN code or title search for a book based on the ISBN code list all books It also provides an easy way for users to select a command from a command menu to perform the above functions and to input data from the keyboard.
- 2. Write a C++ program to implement **Student management system**, which manage the record of students in a school. This program stores the information of students and displays them to the user. It also allows searching, editing or deleting a student from list. It also provides an easy way for users to select a

command from a command menu to perform the above functions and to input data from the keyboard.

#### Post-lab Exercise

- 1. List out the basic code which is important for
  - a. Inserting an item to the list
  - b. Deleting an item from the list

2. Compare and contrast the algorithm for deleting at the beginning, at the end and at specific location in linked list.

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