Data Structures- 2077
Lab Plan – 3

Exercise-1:

Following is the declaration of *Node* class and its member functions. Write the complete definitions of these member functions.

```
//Node class
class Node{
    private:
        int Data;
        Node* Next;
    public:
        int GetData();
        Node* GetNext();
        void SetData(int);
        void SetNext(Node*);
};
```

Exercise-2:

Following is the declaration of *List* class and its member functions. Write the complete definitions of these member functions.

```
class List {
        private:
                Node *CurrentLocation;
        public:
                List();
                void Print();
                void Insert(int);
                void Delete(int);
                void addbetween(int);

};
```

Exercise-3:

Test the code in the main() function by creating Object/s of List class.

Exercise-4:

Implement the following functions on single link list

   a. Finding Minimum
   b. Finding Maximum
   c. Searching
   d. Inserting Item at desired location (take location from user)
   e. Swapping two elements in the linked list
   f. Inserting an element in sorted list
   g. Sorting the list