**Modern Education Society’s**

**College of Engineering, Pune**

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| **NAME OF STUDENT: CLASS:** |
| **SEMESTER/YEAR: ROLL NO:** |
| **DATE OF PERFORMANCE: DATE OF SUBMISSION:** |
| **EXAMINED BY: EXPERIMENT NO: DSL C-19** |

**TITLE : TO PERFORM VARIOUS OPERATIONS ON LINK LIST .**

**PROBLEM STATEMENT :**Department of Computer Engineering has student's club named 'pinnacle club' . Students of second ,third and final year of department can be granted membership on request . Similarly on may cancel the membership of club .First node is reserved for the president of the club and last node is reserved for the secretary of club .write C++ program to maintain club members information using singly linked list .store student PRN and Name .Write function to:

a) Add and Delete the members as well as the president or even secretary .

b)Compute total numbers of members of club .

c)Display members .

d)Display list in reverse order using recursion .

e)Two linked lists exists for two divisions .Concatinate two lists .

**OBJECTIVES:**

1. To understand structure of singly linked list .

2. To understand how to Create,Display and perform various operations on singly linked list .

**OUTCOMES:**

1.To analyze the problems to apply suitable algorithm and data structure .

2.To discriminate the usage of various data structures in approaching the problem solution .

3.To understand concepts of Linear Data Structure (singly linked lists ) .

**PRE-REQUISITES:**

1.Knowledge of C++ programming .

2.Knowledge of singly linked lists .

**APPARATUS:**

**QUESTIONS:**

1. What is a linked list ? State it's types .

2. Write applications of SLL.