

**S. V. National Institute of Technology Surat**  
**Computer Science and Engineering Department**  
**Data Structure Lab**  
**Assignment 7**

- 1) Write a program to count the number of nodes present in the linked list.
- 2) Write a program to count the number of nodes having a) odd data element b) even data element.
- 3) Write a program to print the middle data element of a given linked list.
- 4) Write a program to insert a node at the end of the linked list with value as total of all its previous node values.
- 5) Implement the following operations w.r.t. doubly linked list:
  - Insertion at any position given by the user
  - Deletion at any position given by the user
  - Display the list
  - Search for a specific element
  - Find maximum and minimum elements.