

## Lab Work 4: Linked List

- 1.WAP to implement singly linked list
- 2.WAP to implement circular linked list
- 3.WAP to implement doubly linked list
- 4.WAP to implement priority queue using linked list
- 5.WAP to implement STACK using linked list
- 6.WAP to implement QUEUE using linked list
- 7.Design, Develop and Implement a Program for the following operations on Singly Linked List with header nodes
  - a. Represent and Evaluate a Polynomial
$$P(x,y,z) = 6x^2y^2z - 4yz^5 + 3x^3yz + 2xy^5z - 2xyz^3$$
  - b. Find the sum of two polynomials  $POLY1(x,y,z)$  and  $POLY2(x,y,z)$  and store the result in  $POLYSUM(x,y,z)$