Pune Vidyarthi Griha's

COLLEGE OF ENGINEERING, NASHIK – 4

COMPUTER ENGINEERING DEPARTMENT

Subject : DSA **ASSIGNMENT NO – 03** **Unit : III**

1. Explain **Generalized Linked List** with suitable example.
2. Explain **polynomial representation** using linked list with an example.
3. Write a pseudo C code **to reverse singly linked list**.
4. Represent the following using **GLL** :

   (p, q(r, s(u, v), w) (x, y))
5. Represent the following polynomial by **using-generalized linked list** :

   (a, b (c, d (e, g,), h) (f))
6. Write pseudo C/C++ code to represent **singly linked list as an ADT.**
7. Write pseudo C/C++ code to represent **doubly linked list as an ADT.**
8. Write pseudo C/C++ code to represent **circular linked list as an ADT**.
9. Write pseudo C/C++ code for **polynomial addition** using singly linked list.
10. Write a pseudo C/C++ code to **delete intermediate node** from singly linked list.
11. Write an algorithm to perform the following operations on singly linked list :

    1. **Reverse**
    2. **Sort**

12. Write pseudo C/C++ code **to delete a node from a doubly linked list**.
13. Write a Pseudo C/C++ code **for polynomial addition using singly linked list.**

********** Best of Luck **********