Pune Vidyarthi Griha's

COLLEGE OF ENGINEERING, NASHIK – 4

COMPUTER ENGINEERING DEPARTMENT

Subject : FDS **ASSIGNMENT NO – 04** **Unit : IVs**

1. Compare **Singly, Doubly and Circular** Linked List.
2. Explain **Generalized Linked List** with suitable example.
3. Explain **polynomial representation** using linked list with an example.
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 a pseudo C++ code **to reverse singly linked list**
7. Write pseudo C++ code to represent **singly linked list as an ADT.**
8. Write pseudo C++ code to represent **doubly linked list as an ADT.**
9. Write pseudo C++ code to represent **circular linked list as an ADT**.
10. Write pseudo C++ code for **polynomial addition** using singly linked list.
11. Write a pseudo C++ code to **delete intermediate node** from singly linked list.
12. Write an algorithm to perform the following operations on singly linked list :

    1. **Reverse**
    2. **Sort**
13. Write pseudo C++ code **to delete a node from a doubly linked list**.

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