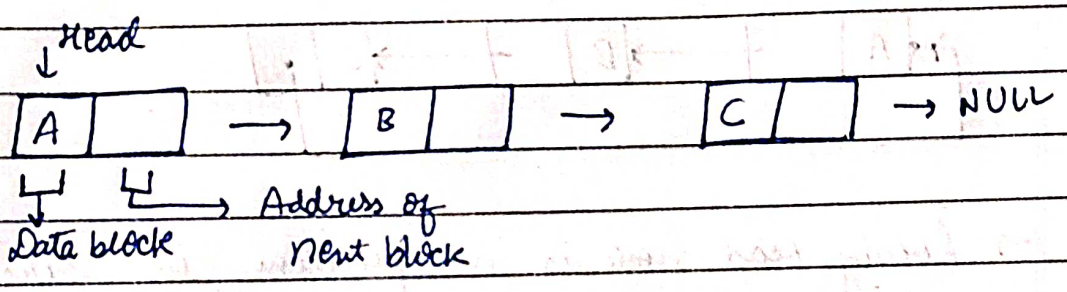
Page No.
Date

* Assignment 9

* (SESSION-1)

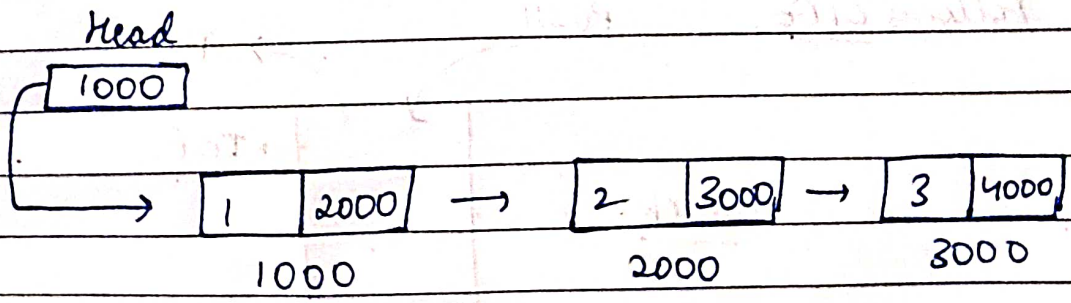
Q1. Linked List

→ Contains value block and address block
→ Size is dynamic
→ Offers easy insertion and deletion



Q2. Singly Linked List :

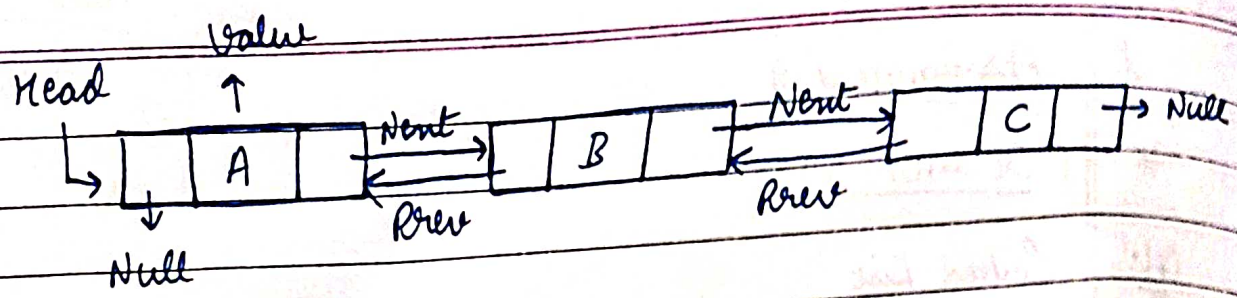
→ Traversing can only be done in a single direction



Q3. Doubly Linked List

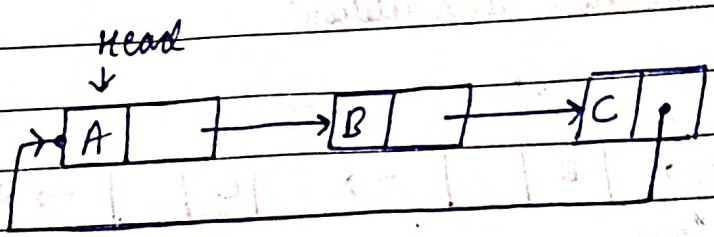
→ Traversing can be done in both directions as each block contains the address of both next as well as the previous node.

Teacher's Signature.....



Q4: All nodes are connected to form a circle.

→ There is no null value at the end in case of circular linked lists. (Both singly and doubly)



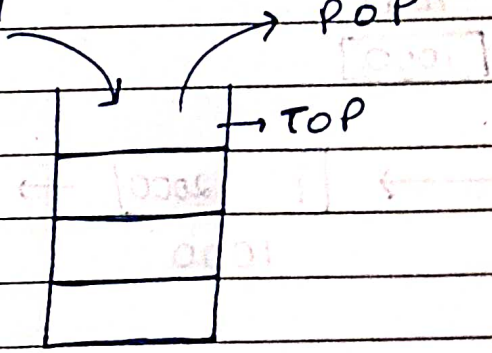
→ Loosing head node is no problem in circular linked list as the whole list can be traversed from any point.

Qs:

(1) Stack :-

→ Insertion and deletion happens from the same end.

→ Follows LIFO.



(2) Queue :-

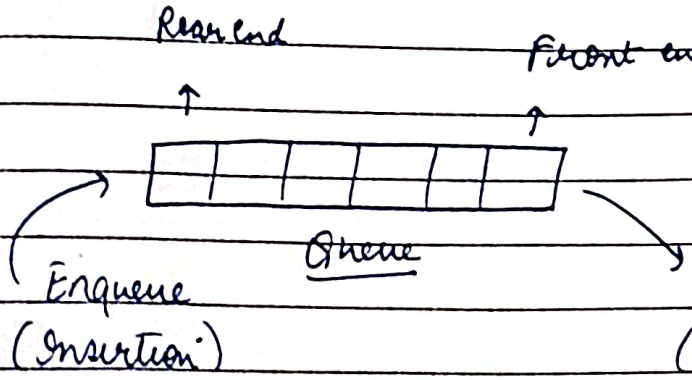
{Next page} ⇒

Teacher's Signature.....

Page No.
Date

→ Follows first in first out principle.

→ Insertion takes place from ~~front end~~ rear end while deletion takes place from ~~rear end~~ front end.



Teacher's Signature.....