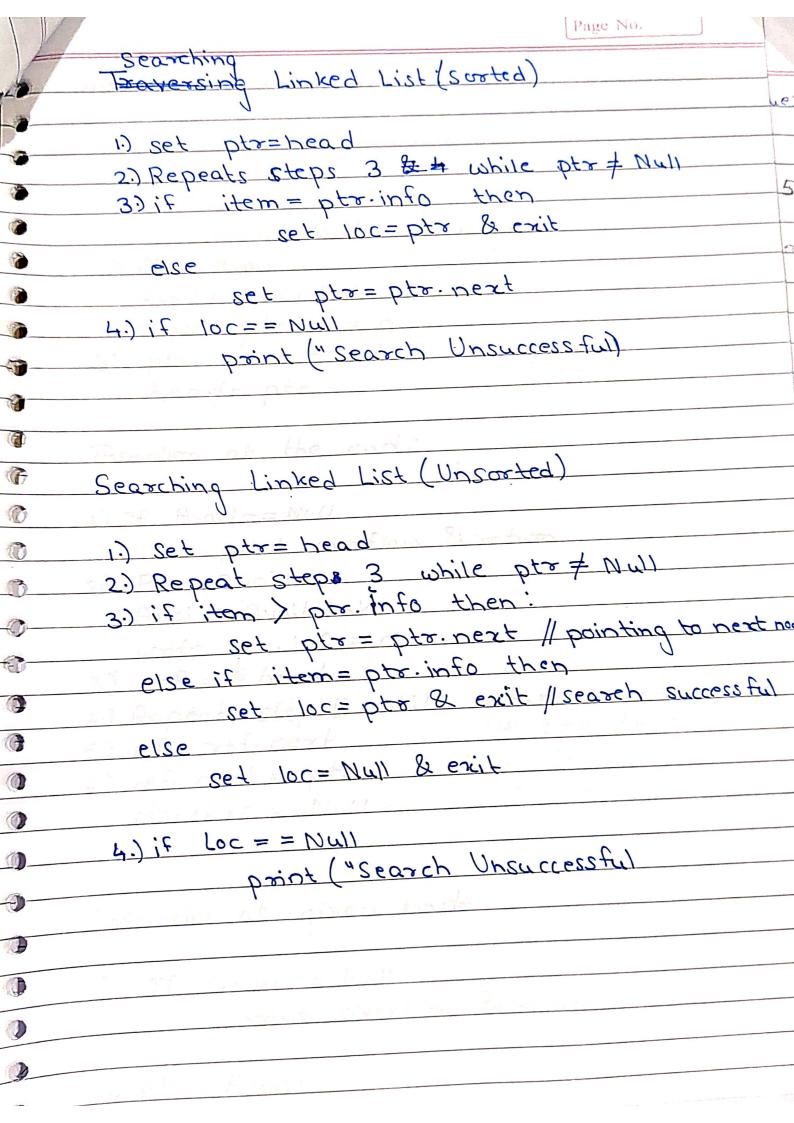
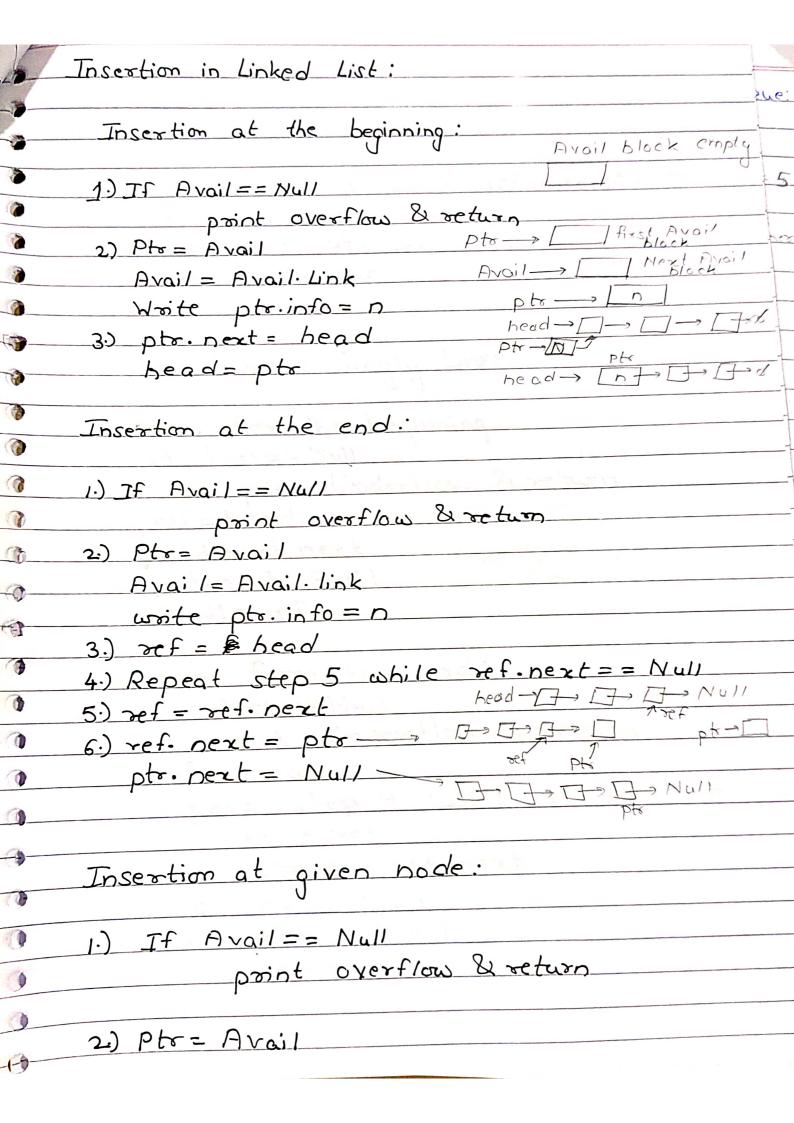
Linked List: A linked list is an ordered collection of -Finite homogenous data elements as called hodes where linear order is maintained by means of links or pointers. Each node is divided into two parts: * tirst part contains the information * second part called the link field or 1 pointer Field, contains the address of the 0 next node in the list. TO Singly Linked List: head -> Data Pto -> Data Pto -> Null 0 * header linked list is the list which starts with head node -* Grounded linked list is the Linked list 1 where last hode points to Null 5 Traversing Linked List: Algorithms: 0 1) Set ptr= Start 2) Repeat Steps 3 & 4, while pt = + Null 3) Apply & Point in(ptr.info)
4) pto = ptr.next 1 pte now points to next node 5) Exit D





Avail = Avail. Link write Ptr. info=n 3) Ref = first 4) Repeat step 5 while ref. info & Data 5) ref = ref. next 6.) ptr. next = ref. next ref. next = ptr Deletion in a Singly Linked List 1 Deletion from the beginning: 1) If first = = Null point Underflow & return

2) ref = head head head

head = ref. next head

4.) ref. next = Avail

Avail = ref 1 0 Avail = ref 0 9 Deletion from the end: 0 1) If first == NW11 point Under Flow & seturn 2 2) ref = head 3.) Repeat step 4 while sef. next = .N 0 4.) Pto = ref pt sef = sef. next 7 5) pto. next = Null 6.) sef. next = Avail 2 Avail = ref 1 7) Stop

