Singly L	inked liot
5 8 9 N	ode tail
head	Data Next
Starting from first element, access each element one at a time, till the last element.	
Hos Ci	a[i] Transpol
Empty hot Bead > empty [tail]	Singly LinkedList Traversal - If list is empty then stop. - Set current to first node of list. - while (current is not empty) do - Process current node. - Set current to current node's next.
head 7	7
empts -	Singly LinkedList Traversal (Optimised) Set current to first node of list. while (current is not empty) do - Process current node Set current to current node's next.

Create a linked list Is Adding elements to be stored in wot.

Is Add a new element at stab of vist

shall a new
element at end of 111-121

element at end of A

wot

head Add 3 of staff of
Thecod

Add 3 of staff of
Thecod

Foot

The add

The add Add 3 & state of Not Insect in the list 11-7 SJ- TOD Insust/Add 7 so that hist remains socked.

new element at the start of list. AddAtFront(element) - Make space for new element, say newNode. - Store element in newNode's data. - Set newNode's next to empty. - if list is empty then - Set head and tail to newNode. - Stop. - Set newNode's next to head. - Set head to newNode. AddAtFront(element) - List having only head pointer. - Make space for new element, say newNode. ADDATION (5) - Store element in newNode's data. Set newNode's next to empty. - if list is empty then Set head to newNode. - Stop. - Set newNode's next to head. Set head to newNode.

2-Add a element at the end of liot.
-> conthoch tail pointer
Gead 2 13]+15]+12]
Add At Rear (18) current
head 3 LASISISISISISISISISISISISISISISISISISISI
to reach last mode.
- Set new Mode as next A last node.
Ne ad] 1312-1212 10D
Empty Work 11 Add At Rear (2) (1) Emty Wot head > empty
head > empty
GIID enculodo DAddAtRear (5) head A compty
AddAtRear(element) - with no tail pointer Make memory for new element, say newNode.
- Store element in newNode's data Set newNode's next to empty.
- if list is empty then
- Set head to newNode Stop.
// List is not empty. Traverse the list to find the last node.
- Set current to head.
- while (current's next is not empty) - Set current to current's next.
- Set current node's next to newNode.

-> Coith tail pointer.

AddAtRear(element) - with tail pointer.

- Make memory for new element, say newNode.
- Store element in newNode's data.
- Set newNode's next to empty.
- if list is empty then
 - Set head and tail to newNode.
 - Stop.
- Set tail node's next to newNode.
- Set tail to newNode.

(3) Insect element in a societal unt. head D (A) Insert (10) 1 Empty list head - empty in adding @Insert (5) new element after lost head x empty node-GISN = rew Node Roult after of head -> 151 3 Insist (2) = Result in adding new element head to been - suppl Result after SP Result of op head -121-151-101 5) Insert (3) Poer

- Insert(element) with no tail pointer.
- Make memory for new element, say newNode.
- Store element in newNode's data.
- Set newNode's next to empty.
- if list is empty then
 - Set head to newNode.
 - Stop.
- // List is not empty. Traverse the list to fin previous and current nodes, because newNode will be inserted between previous and current nodes..
- Set current to head.
- Set previous to empty.
- while ((current is not empty) and (current node's data < element))
 - Set previous to current.
 - Set current to current's next.
- // Adding before first node? (Adding smallest element).
- if current is head node then
 - Set newNode's next to head.
 - Set head to newNode.
 - Stop.
- Set previous node's next to newNode.
- Set newNode's next to current.

head I nell