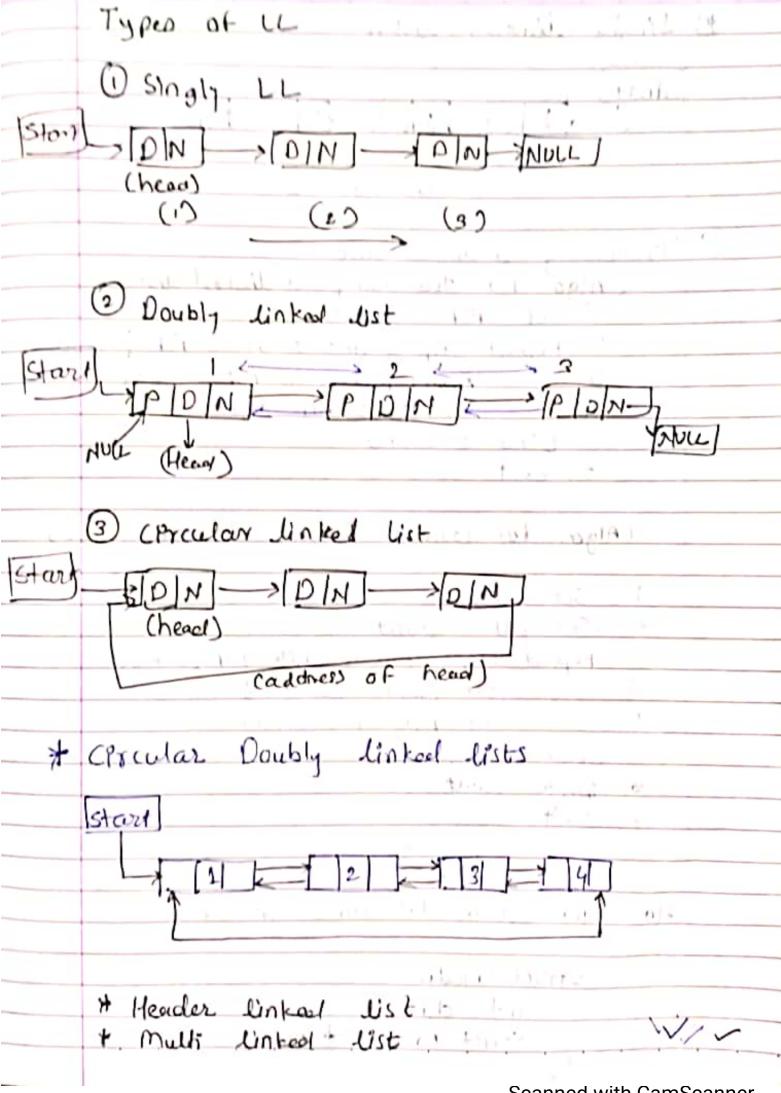
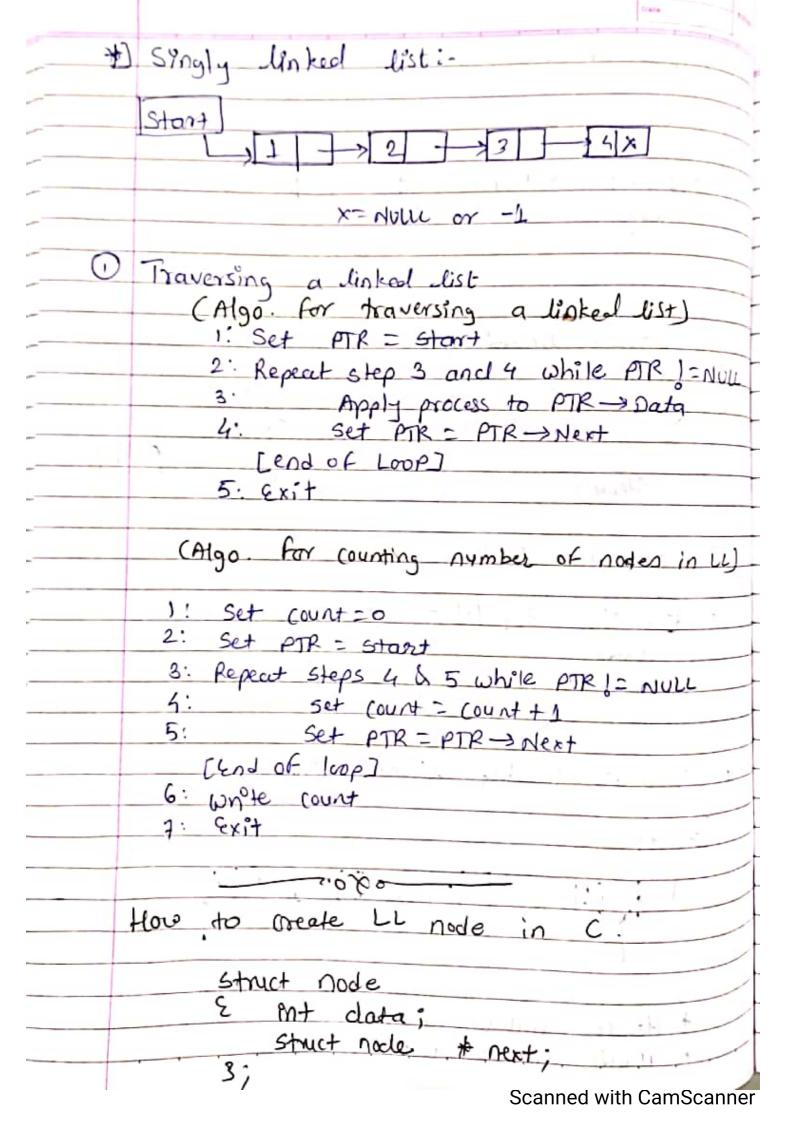
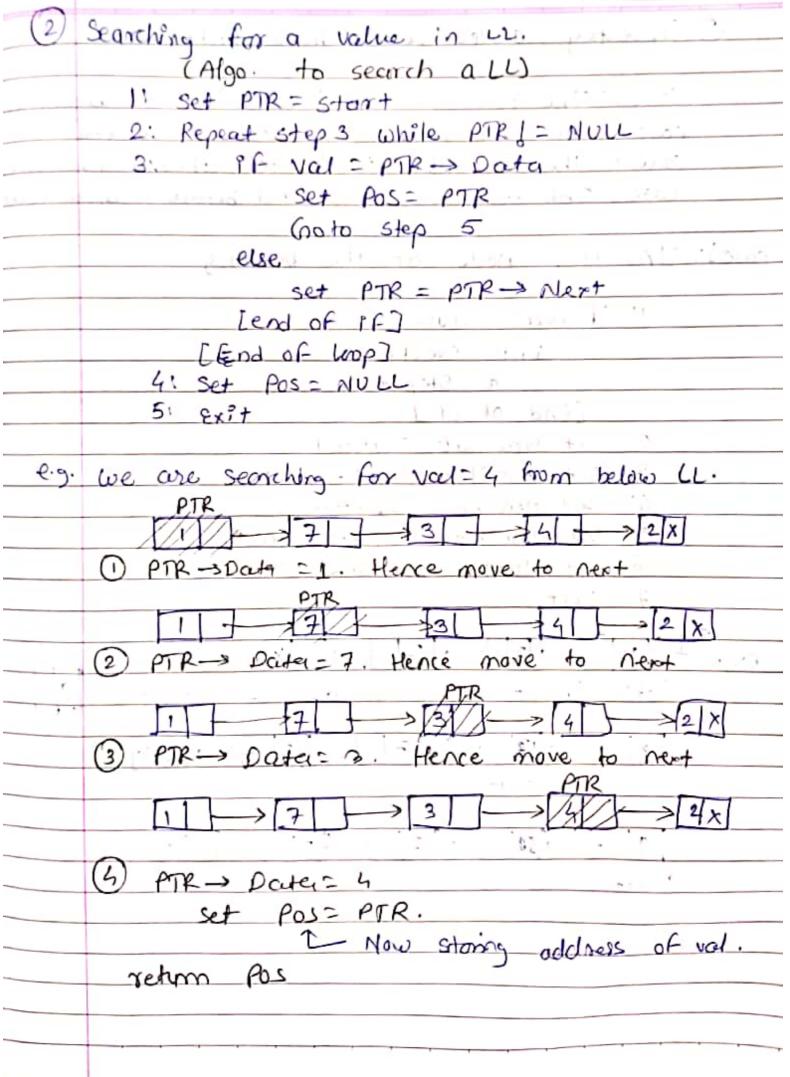
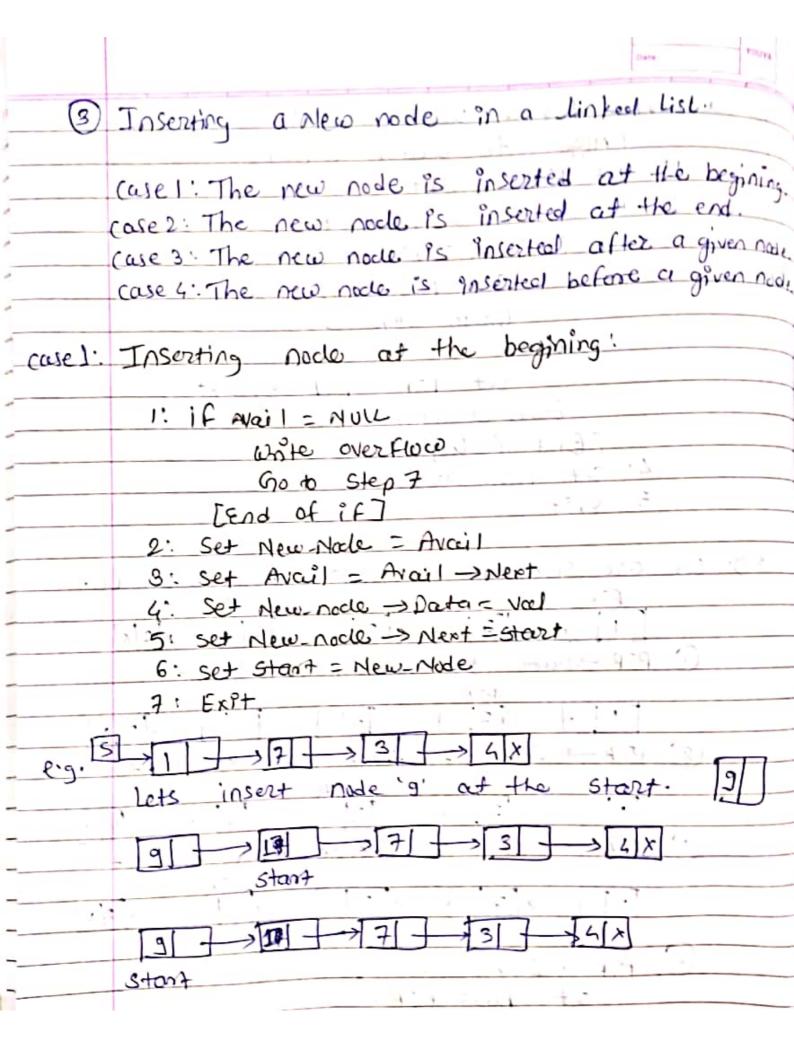
	Linked List
1)	- SMCTURES
2)	elements are linked using pointers each not
3>	Unked list consusts of nodes where each note
	inc a data Held gra
	the next node in the list.
	Node A Mare 13
	Date Net Date New New Note
	1 Head.
	Linked us Arrays
(T)	Advantages:
	1) Dunamic Size
	(2) Ease of prosertion / deletion.
2	D?sadvantages:
	@ Runctom access is not allowed.
	we have to acress elements sequentially starting from the first node.
	2) Extra memory space for a pointer
	3 Not cache Prendly. [locality of reference]
	not present
-	
	Operations of linked list
	(1) Traversing a LL
	D Append a new nocke to the end of LL
	3) Prepend a new node to the start of LL
	(2) Insering a new hour to a specific position
	3) Prepend a new node to the start of LL (3) Inserting a new node to a specific position in LL (5) Deleting node from the LL (6) Updating a node in the LL

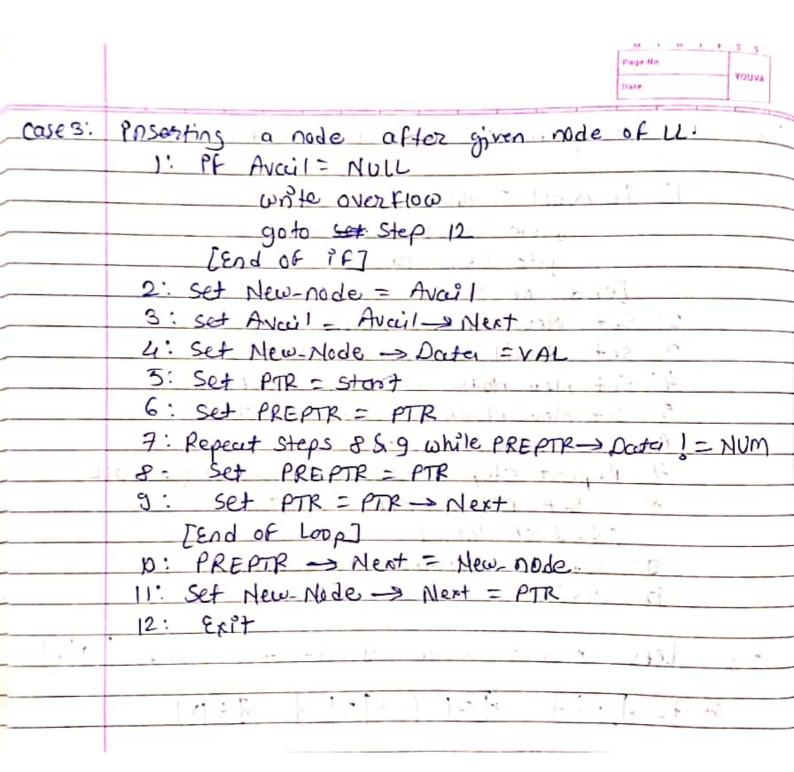








	Page No. Sota
(ase2:	Inserting node at the end of u:
	1: If Nail = NUL
	un'te overflow
	goto step 10
	Lend of 1FJ.
	2: Set New Node = Avail
	3: set Avail = Avail -> Ment
	4. Set New Mode -> Date = Val
	5: Set New-Node -> Nept = NULL
100	6: Set PTR = Stort
	7: Repeat step & while PTR-> Ner 1 = NULL
	8: Set PTR = PTR -> Next
	Lend of loop]
	9: Set PFR -> NEDT = NEW_NODE
	10: Exit in a main & - 22 m m m + 10.
ez.	lets Pasent node '9' at the end 9x
یی	$1 \rightarrow 1 \rightarrow$
1	let ptp point to start
	1) -> 3 -> 4 x
	Start, MR
	then increment PTR till reach last Node
	1 3 3 3 4 8
	Start PTR
	Now insert 9x at the next of PTR
	11 -> 17 -> 3 -> 4 -> 18
	Start PTK
	Scanned with CamScannei



ases:	Inserting a nocle before given node of LL.
	1: If Avoil = NULL
	arte overflow
	G70 to Step 12
	[End of if]
	2: Set New-Nocle = Avail
	3: Set Avail = Avail -> Nept
	4: Set New-Node -> Data = val
	5. Set PTR = Stant
	6: Set PREPTR = PTR
	7: Repeat Steps 8 & 9 while PTR -> Data J= NWM
	8: Set PREPTR = PTR
	9. Set PTR = PTR -> Nept
	[End of Loop]
	10: PREPTR -> Next = New Node
	11: Set New-Mode -> Next = PTR
	p. Exit
	. 4 . 2

,	Craca Finneys
(4)	Deletion a north from linked lat
	Ocleting a node from linked list
/	cases. The last much is deleted
	case 3: The nocle after a given nocle is deletel.
<u></u>	o.
case 1:	1: IF Stant = NULL
	unte underflow
	gato step 5.
	[end of if]
	2: Set PTR = Stort
1101	3: set start = start -> Next
	G: See PTR
	5. epit
Case 2:	Deleting Last Nocle
	1. It Start = NULL
	ante underflow
	goto stead
	Lend of IF
	2: Set PTR = Stort
	5: Repeat Steps 465 while PTR-> Nest J= NULL
	5: SET PTR = PTR -> Next [End of loop]
	6: Set PREPIR-> Next = NULL
	7: FREG PTR
	8: Exit

case 3".	Deleting the node after given node.
	1: 9f start = NULL
	write underflows
	Goto step 10
	rend of rej
	2: Set PTR = Stort
	9: SOF PREPIR - PIR
	4: Repeat steps 5 S6 while PREPTR-Docta JENUM
	5. Set PREPTR = PTR
	6: Set PTR = PTR -> Next
	Cend of loop]
	7. Set Trop = PDB
	8: Set PREPTR -> NEXT
	9: free Temp
	101 exit