YOUVA NAME Ramya Ramesh USN: 1BM19CH038 Lab 6 Singly Linked list Implementation & Insertion of Node at Beginning, End and at any specified position; Deletion of Node From Beginning, End and at any position. Pseudocode 1* Nodo Implementation */
stouch nodo { int int ; Stouch node *next; Storet mode * start : NULL; 1 Coeale* temp = (stovet mode * malloc (size of (stovet mode));
temp > next = NULL if (start == NULL) Start , temp; llee {
pto : etant;
while (pto > next |= NULL) goto = pto - mext; goto rext : temp;

/ Display / Stovet rode * pts;

if (start == NULL) &

printf ("In list is empty!"); point (" | List elements > "); while (pto = MVLL) point ("Y.d", sto - into); /* Insert node at beginning * storet node temp; temp = (storet node *) malloc (size of (storet mode); pointf(ah ther value of node: "); sant ("X'd", I temp > into); temp + next = NULL. if (start == NULL) { Start -temp; temp > next = start;

YOUVA * Insert node at the end */ note "temp = (dovot node") malloc (sixe of (stovet wate)), *pto; printf (" In Enter the value for node: "); Sant (" Y.d", I tamp > into), temp) rest = NULL; # (Start == NULL) Start : temp; pto = stast; while (pto > next! = NULL). pto = pto mext; > for rext : temp; /* Insest at any specified position*/ Storet made * ptr, * temp; temp: (storet mode *) mallor (size of (storet mode));
pointf (In Enter position for new mode to be
inserted: "); Scanf (" Yod", Spos); point ("In Enter the value of node: "); scant (" /d", Stemp rinto); temp - next = NULL; f (pos == 0) { temp - next = start; & Start - temp;

for (i=0 pto = start; i < pos-1; i++) pto pto next; temp > next = pto > next;

pto > next : temp; /* Delotion of node foon beginning */
clast == NULL) point (" la List is Empty!"); actum; Start = start next;

point ("In the deleted doment is : /.d",

to > into);

Porce (pto); /* Delete from ending */
cloud node * temp, * ptr;
if (start == NULL) point(" | List is Empty! | "); exit (o);

YOUVA olse it (start = next = = NUII) Stard = NULL; point (" \n The defeded element is . Y.d",

force (pts); pto-start; while (gto-next!=NULL) temp=ptr; point(" for The deleted element is : /d",

to -into);

fore (pto); /* Delete node from my specified position */ stret node *temp, * pto;

if (Start = = NULL) point ("In the list is Empty!");
exit(o);

else point (") a Enter position of mole to be deleted in Scanf (" 1.d", Spos); H (por = = 0) plo = start; Start - start - next; paint ("In The deleted element is: "Id" operinto); pto = start; fro (i=0; i< pos; i++) temp = pto; it (ptr = = NOLL) pointer (" n Position not found!"); temp rext: formext;
point ("In The deleted element is: 1.d") foce (pto);