6. # include (stdio. h) # include (stalib. h) # include Listering . h> void Insertend() void Insert pos (int p) void Insert begining () void delete(); void delpos(it) void del_legt); void duplay O; Wruct node int sem; char isn (20); Char nane (20) struct node * head = NULL. int main () { int choice, ele, a; Prints "In 1. Insert at the end In 2. Insert at the legisif In 3. The est at a position in 4. Delete at the end In 5 Delite at the begining In 6. Delite Scant ("o(od", & choire); case 1: Insertend (), break; case 2. Insertheging break; case 3: phint["Enter the position"

iserpos(ele); break; case 4: delite () freak; case 5: del beg (); breat; scanf ("% od", (a); delpos (a); break; Case 8: exit (D); break 33 while (choice 1:8); Void delete () int sem!; char usn Baname 1 (20) if (head = 3 NUL while (Lemp) next { temp = temp = next; Stropy (name | temp > next -> na me Strip (ush 1, temp) next > ush).

Semi = Lemp > next > sem;

Phit ["Student deleted " % o s % o namel, usn I, sem), temp -> next=NULL;

void del leg ()
{ struct rade * temp = NULL; int yeml; Char UShi(20), name (20); if (head == NULL) else { List is empty"); Stacpy (namel, head > name); estably (usn), head - s usn); Semil = head & sem; prits "Student deleted. 3 of o 18 % od, namel, usul, semi); temp = head; head = fenp -) next. free (temp) void delpostit p) istruct mode & lenp-NULL ant Jemi, char Ush [20], name (20) if (head == NULU) print["linhed ust is empty"); else it (want + kp) Dait! position not possible") else if (= =)

3 stropy (name), head I name);

the sem (- head I sem Strapplish 1- head > lish.

Drist [Student alleted % 5 % of od "have usn, som).

femp = head. free (temp's Spared mode temp, * ptz; temp = head; 101(i=2;i/2pi++) } temp= temp> next skopy (namel, temp - next-shane). shop (Usn, Jedo > nox+3 usn); sem = temps near sem; print student deleted 10 5% 10 3% of od" namel, usnl, sem); ple - temp -> nent; Lemp mext = temp & next & next; gree (ptr); wunt

Inserthegining struct node + newpode; char a [50], b [50]. print (" Enter your name:") want ("% 8", a); printy (" Enter your usn:") 1scan (10/08", 6); paint ("Enter your semester"); iscand "lod 8 3). neronade = (struct node *) malloc node). new node & sem = 13; istropy (new node -) name, a); utropy (newnode -) usn, b); numode - next = head; head = newnode pritfl'Node Greded'n')

void Insertanypos (intp) is fruct node *newnode; char à (30), 6(30); paint ("Enter your name:");

paint ("Faler your van:");

scan ("%s", b); paint (" Enter your isemester:); Man [10 d, 88). naomole = [iskuct'node*) malloc (sized (skud newonode - sem = s; istropy (newnode > name, a). istropy (newnode. > usn, b); if (b = 1)
) I print! ["Node of linked list is inserted in position onela"). neronode > next = head; head = new mode, else if (head == NULL & & p>1)

? peritf ("hist is empty"); elseif (P>(C+1)) prits ("Not possible as number of nodes
present is insufficientl");
return; else struct mode * temp1; struct node + temp2; int count = 1; templ = head; while (count 4(p-1)) templ - templ -) next; 2 count ++; temp2 = temp1 > next; temp 1 -> next = new node; new node > nox+ = teng2; paint (" Node inserted at "lod position in a hinded distiln", p); void Insertend() iskud node * new node; isterict node * temp int s; char n [36], u (30) print ("Enter your name") prit ("Enter your sens fer "). print ("Enter your sn:");
scanf (" do s" u); new node = (skuct node*) malloc (sign) newrode > ven = 15;

iskopy (newnode -> name, w); if (head == NULU); newrode I next - NULL; head = newhode; printf("First node createdin"); else temp = head; while (temp & next , - NVLI) leny > next : new node; new node -> next= NULL print ("Node aceted") void Display() estruct node type

pk = head; if (ph == NULL) { prints ("Linked list is empty"); Plse 2 while (ptr 1=NULL) E print ("Node ofod" i);

Print (Nane ofo's In Usn You Kem of d." ptr , name, ptr > upn, pr + isen

