5/02/2024 Week - 07 1) WAP to implement doubly linked list with following operations: - a) create b) insert a new mode to the left of node c) Delete specific node. struct rode struct node \*prev;
int data;
struct node \* neut; stract node \* start = NULL;

avud node \*create\_U(struct node \*start) struct node \*new-rode, \*ptr; int num; printf ("In Enter -1 to end: "); printf(" in Enter data: "); scant (" %d", &num); while (num 1=-1) if (start = ZNULL) new\_node = (struct node \*) malloc (size of (struct nod) new\_node >prev= NULL; new\_rode >data & num; new node > next = NULL; start = new\_node; olge ptr cstart; new\_noder(struct node \*) malloc(size of (struct node)) new\_node >data = num; while (ptr > rent 1 = NULL) ptr = ptr-> neut; ptr->next a vew\_node; vew\_node > preveptr; new\_node > next = NULL; print (" In Enter data: "); scant ( " %d", & num); roturn start;

if (strort-data) eval) tred note theplay (stud role \* Hort) print ("In Exter data "); street rode \*ptr; scant ( wold , snum); phrestart, New mode = (struct rade \*) malloclage of (struct rate while (ptrienull) new-node + data = num; print ("It "id", per-data); phrestart; ptr = ptr > next; while (ptr > data ! = val) ptr eptr-swent; rdum stort new node sued epty; should node finent believe (truth node total) new\_rode spreve ptr-sprev; ptr sproi sucht = www. node; of much ado thew node ptr -> provenew\_node; print ( Wester data: 1); scant (" Ed", en); starte insert be g(start); new\_rade = (strad node t) malloc (syeof (strad new made sdata chain; return start; start -> prevenew\_node; new\_node - next at art; struct node \* delete relected (struct rade \* clart) new\_node-spreve NULL; struct node total start cuou\_node; int wal return start; ptr c start; printf ("Infuter the value to be deleted - but \*insert before (Avail note total) scarf (" " d", gval); struct node \* rewnode, \*ptr; while (ptr > data != val) int nam, val; printf ("In Enter the value before which the of ptraphravent; data has to be inserted: "); scanf (" "/d", vals);

it (phradala = e val) 1 phrapierand ophraned, between spiece by spiece! free(ptr); else of printle order with tod value doesn't own, schun start; and choice: 1) create a) Display, 3) Add before 4) Delete given 5) fuit & option: 1 Eder - to end: Enter data : 1 Enter data : 2 Exter data 13 Euler dato 4 exter data: 5 O Ester deta :-1 Doaldy linked list created.

choice: 1) create 2) Display 3) Add before

4) Odete given 5) Enit

option: 2

1 2 3 4 5.

Choice: 1) create 2) Display 3) Add before

4) Delete given 5) Enit

Entr the value before which date has tology Enter & data 6 be injerted ] choice: n'Create of Display of Add before a) Delete given of Guit option: 2 6 1 2 3 4 5 Choice: Acreate Adisplay 3) Add before 4) Delete given 5) fruit option: 4 Enter value to be deleted: 4 Choice 1) Treate 2) Display 3) Ald before a) Delete given 5) Guit Option 2 6 1 2 3 5 . choice: I) Create of Display 3) Add before a) Delete given 5) Ent Option: 5

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