JUIAP to implement doubly Link List with primitive operations a) Create a cloubly linked List b) Insert new nock to the left of the node of Delete the node based on specific value. It include Lotdio.h) # include 2 stallib.h> Street node? inte data; struct node *prev; Struct node *nextr. Strut node thead = NULL; void create-U() < smut node + newnode, *ptr; int num; portelf (" Enter of to wit); while (num 1= +1) 1 printf ("Enter the number"); Scant (" . lod", Brum); new node = (strut node *) malloc (size et (strut node!)). newrode -> data = num. it (head == NULL) 1 head = newnode; newnode - next = NULL;

new-node -> per = NULL.

else { pto = heard. while (ptr snext != NULL) 1 ptr = ptr > next it; ptr-next = newnoods; new mode - next = NULL; newnode -> prev = pts. insert_left()& Void Struct node * newnode , * pti ; @restes int volle; nade: new node = (thut node +) Malloc (size of (strent node)); Throdo Solder val; printf (" Enter the make: "); Scanf (" old", Sval); printf (" Giter the value before which nocle has to be inveded) Scent ("1.d", node); newrode - data = Val; ptr = head. and while (ptradata to node)! ptr = ptr >next. Mesto of done

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prexpt = ptgenext
     neconode ->next = pts
      newnode -> prev = ptr -> prev
       pla -> poer -> next = newnode;
        ptr -> prev = newnode,
     display () <
void
     Strut nock *ph:
       if (head = NULL) {
           printl(" Nothing to print");
      Jelse 1
        ptr = head;
        while ( ptraced != NULL) !
              prote ("1.d", produta);
              ptr = ptr -> next;
       del-node () 1
        Smut node *ptr.
        int ral;
        pointf ("enter the value to be deleted);
        Scent ("Ad", val);
         if ( heard -> data = val) !
             ptr = ptr = next;
            pto ->prev = NULL;
            head = pto
            free (ptr);
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else 1 while (ptr -> data 1 = val) ? ptr = ptr > next; ptr - prev - next = ptr - next ptr > next - prev = ptr - prev free (pti); 0/P: ---- MENU > Create 11 2) Privert - left 3) delete 4) display 5) exit Enter your choice: 1 enter -1 to exit; Enter the num: 10 Enter the num: 20 Onler the num: 30 Enter the num: 40 Enter the num: -1 Enter your choice: 24 10 -> 20 -> 30 -> 40

Enter your choice: 2

Goter the value : 15

Enter a value before which data need to be inserted: 20;

Enter your choice: &

10 -15-720 730-740

Conter your choice: 3

Enter the value to be deleted: 30

Enter your choice: 4

10->15->20->40.

Sonre .