NAME: ANCHOL H. CURANA UN : 18141915020 WAS Implement Single link list with following condos a) sort the linkedlist b) Reverse the linked list () Consoleration of two linked little #include <stdio.h> # include Ketalib. h7 void sort() void create(): void reverse (). vold osak second 0; reid constante O: roid displayer; short node int data; Stret node next! * head=NULL; * head 2 = NULL; Strick node Int main (isions tri do printf ("n1. Greate In2. sort In3. Reverse Ing. Ensur Sevend by 1 / S. Concateration / my Display Just. Exit,). Start ("1.d" 8 chaire); Busitch (choice). case 1: caeate (): H. Cuano Johnst

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NAME "ANSHUL H- SURANA Page No. USN: 1BM19C5020 Date case 1. Sort (); becak; core 31 reverse (); beeck; caxy: ceale second (); beeak; case S: consatenate (); beeak; case 61 display (); beeck; case 7, exit(0); 3 while (choice !=7); Letuer 0; seter bior Street node * reverade; Street node * temp; printf ("Enter integer" scanf (".1.d", 89). neumo de = (struct node *) malloc (size of (8 truct node neconode > data = g. if (head == NULL) neverade ment = NULL; head = newpode priate (" But node created /n") temp= head;

NAME : ANSHOL H. SUPANA UINSIBMIACCOZO femp - next - new node; newrode + nextenull; c++; print & C' vode Greated (n'). roid severse () Shockrade * prevenull , cuspent = head * noxt = house while (cuesant!= NULL) vox+= cussent -) vox+; cusant trant sprey; Prev= cussent; cussent = next; head - prev; printfl" The list is severed In"); void display() struct rode * Ptr = nucl; ptr=head; if (btr = - voice) of printf (" List is empty In"); & prints ("In bontents of the linked list"). vohile (ptr1= NULL) printe (" It olod", ptr -) deta); pt= ptr-1 rext; Arghul H. Sulana Point ("/n");

NAME : ANGHUL H SUBANA Uso : 18M19CCO20 boid create second 2 struct node * new node; Strick node * temp; int 5 4/ print ("Enter integer"); Scart [" 19" 80]. nownodes (Street rode*) malloc (Size of (Street rod newrode -> data=s; if (hoad 2 = = NULL) & new rode -> Next - NULL; head 2 = newrode; printf ("First node created In"). tempshead 2; while (temp + nex+!= NOUL) temp= temp + next; temp + next = newoode; vonvoge + vext= norr. printer" Node weaked In" } void versaterate strict rode * pts (1)vu= = boan) 7; head = head ptx = head. while (pto I next!= NULL) ett=bfr-1 vext. Arshul H. Guran

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NAME: ANSHUL H. SURANA Page No. ptx -> next = head 2 printf ("The list is considerated In") void sorte) int swap, Street node * Ptr I Street node * 1PT = NULL. if Chead = = NULL setus: do Ewaps 0' Ptr I = head. while (ptr I trext 1 = 1pts it (Ptr I Adola >ptr I Anext adota int temps ptrz -1 data; Dita I dota = ptr I d next - 1 dota: ptg I I next I data - temp; swap= I; Str = btr 7; while (swap);
printt (4 The list is sorted In"). Anshul H. Sugna

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