Date / / Single link list with pollowing a) Soft the linked list b) Reverse the linked list c) Concatenation of two linked lists. # include (stdio.h) # include (stdio.h) # include (conio.h)	
structnode int info; struct node * link;	
typedef struct node * NODE; NODE getnode()	
NODE getnode & x; x = (NODE) mallor (size of (street node)); if (x = = NULL) print (" memory full in"); enet(o);	
return x; Void freenode (NODE X) S	
free (n);	

	Date / /
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	int I get (NODE full, and dem)
	NODE used - quote
	NODE insest Juont (NODE first, int item)
	2005 temp
	+ h = get node ()
	temp -> info = item;
	temp > link = NULL;
	temp stork
	if (first = = NULL)
	temp > link = first;
	temp -> link = first;
	first = temp;
	Leturn finst;
	NODE delete front (NODE first)
	Note delete from
1 1011	. 1
-	NODE temp; if first = = NULL)
	if first = = NULU
	print (" list is empty cannot delete (n);
	Leturn first:
	print (" list is empty cannot delete \n"); Letwon first;
	temp = first; temp = temp -> link; print(" item deleted at front end is = "od n", free (first);
	they given,
	temp = temp - temp
	fruit (item deleted at front end is - "at in,
	first -> enfo),
	free (first);
	free (first); return temp;
	(JUNE = NUCL)
	NODE invests and larger triple intition
	NODE insect seas (NODE first, int item)
	NIONE A
	NODE temp, cur; temp = getnode();
1	temp = getnode();

temp -> info = ctem; of first = = NULL) settlern temp; lus = first; ile (cur -> lint 1 = NULL) Car = cur -> link; Cuy -> link z temp; NODE delete sear (NODE first) print (" list is empty cannot delete" if (first-> link = NULL) prient ("item deleted is tod" seturn NULL; frer = NULL; Cur -> link | = NULL) ¿ lus z cus > link; free (cur); alleted at rear end is 1.d", auxint

temp -> link = NULL; return first; NODE server (NODE point order lest (int i tem, NODE first) NODE temp, porer, cur; temp = get node (); temp (> info = 'dem'; temp -> link= NULL; if (item < first -> info) temp -> link 2 first;

seturn temp; prev = NULL; cur = piret;
cutile (cur! = NULL && item > cur -> info, prev 2 Cus; ? Cur = cus -> link; fres -> link = temp; femp -> link = cur; freturn first. JODE reverse (NODE first) NODE aus, temp; cus = NVLL; whild first 1 = NVLL)

frint f "item deleted at new, and temp = first; first = first -> link; temp -> link = cua; NODE concat (NODE Just, NODE second) NODECUS: if (first = 2NULL) return second: if (Second = = NULL) seturn first; cur = first; while (cur-> link != NULL) cus = tus -) link; cus -> link = suond yold display (NODE first) NODE temp; if (first = 2 NULL) scint ("lest empty commot display items \n"); for (temp = fiest); temp 1= NOLL; temp= temp= link) scint ("of.d'n", temp -> info) 3

void main () NODE firest = NULL, ag b; s () ;) print ("In 1: Insert front In 2: Selete front & in 3: Insert rear n 4: Delete - Rear In 5: Order list \n 6: reverse-list \n 7: Coneat_list \n 8: Driplay - list In 9: Exet (n'); printy (" enter the choice in"); suitch (choice) case !: perent (" enter the item at front end in); scarf [" / d" , & i tem); first = insert front (first, item); break; ; first = delete - front (first); Case 3 9 print (" enter the item at rear end"); Seent ("',d", & item); first z irrest rear (first, item); break; Care 4: first = delite_read (first); Case 5: printy ("enter the item to be inverted in ordered List \n");

scomf (" . ! d" & item); first = order list (item, first); case 6: first = severse (first); display (first); Cene 7: Print ("Enter the no. of nod Searf (1'd', Sn); 9 = NULL; forlizo; i < n; i++) printf ("Enter the item \n"); Seanf ("/d", Sitem); az ivegt-rear (a, item); print ("Enter the no. of nodes in 2 \n"); Searf ("'./.d", &n); b=NULL; fog (i=0; i2n; i++) scarf ("Enter the item \n"); bzinsert-rear (b, item); z concat (a, b); diplay (a); Case & " display (default : cnit(0); Greak;