output:

DOUBLY LINKED LIST

1) Insert 2.> Insert after a data 3.> Display. 4.> Delete 5.> Exit Enter your choice: Enter info part: 1 Enter your choice: 1. Enter info part: 2. Enter your choice: 1.
Enter info part: 3
Enter your choice: 3.
1-> 2-> 3. Enter your choice: 2. Enter the number after which you wish to add data: 2. Enter the info part: " Enter your choice: 1-)2-)4->3 Enter your choice: 7 Enter the data to be deleted .: 4. Enter your choice: 3

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	Student Name Vaibhau Saran 'Roll No.
	Experiment No. Date
Olijechae	To implement a doesly linked list in.
Code:	# include < stdio. h>
	# include < Stallib.h>
	Struct node.
	& jut info:
	3 * Start, * temp, * flag, * p, * 9;
	Void insert ()
	E. p = (Struct node *) malloc(size of (struct node));
	if (P== NULL)
	2 printf ("In Failed to allocate memory");
	return;
	prints ("In Enter the info part: "); Scant (" ", & p > info);
	Scant ("/d", &p->info);
	p-> front = NULL;
	P-> back = NULL
	if Start = = NULL).
	stert=P;
	else.
	ultile (g-> pout!=NULL)
	a = 9 -> Front o
	a-> browt=P:
	0-> back = 9°
	3.
	}
	Page No

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Student Name	
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	1/10 insert a node after a given
E int ch, no	Il nock
printf ("InE	ter the number after which
gaul	msa to add adda.
Scanf ("Y.d")	(ch);
Printf("\n Ent	er the info part: ");
Scarl Lyd"	120
p = (Struct node	*) malloc (size of (struct node));
If (P== NULL)	Failed to allocate memory");
2 prent + ()n	-ailed to allocate memory 1.
2 return;	
0-21-10-10	
P-> info=no	1/1/) •
p-> back = NL	11 1 "
temp= start;	
flag = Start -> f	ront:
cutile (temp->ix	
= temp = temp	
flag = flag	-> front;
}.	
Date of the	if (temp-) front = - NULL 48 temp-info = ")
5 printf("In Va	but not found (n");
return;	
3 .	
temp-7 front	Ξρ;
p-> back = te	np;
p > front = flo	rg.;
flag -> back =	P;
9=0;	Page No

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(((.)))	Student Name
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	uchile (q!=NULL).
	{ printf ("1.d->", q > info);
	12=9-> back;
	print("161616 1")"
	3 Punt (0100
	void delete ()
	9 int a:
	printf ("In Enter the data to be deleted: "); scanf ("x.d", 4n);
	temp= Start -> front;
	flag = Start;
	if (flag->info==n).
*	if (flag ->info == n). E start = Start -> front; Start -> back = NULL;
	free (flag);
	3. Lens.
	uehile (they->info!=n).
	E. temp== temp-> front;
	flag = flag -> frant;
	ik (temp-) info!=x & & temp-> front== NULL)
	if (temp-) info!=x & temp-> front== NULL) §. printf ("In Value does not exist");
	z return;
	0 - 40, 0 -> 120 +:
	9 = temp > front; flag -> front = 2;
	9-5 buck = flag;
	temp -> front = NULL's
	temp=>front = NULL; temp=> back = NULL; page No

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and a second	Void display (). E. temp = start;
	{ temp = start;
	tubile (terre - NIIII)
	E. printf ("1.d> " & temp -> info); temp = temp -> front;
	temp = temp -> bront;
	printf ("\b\b\b\\\\);
	13
	int main ().
	{ int ch;
	Start = NULL;
	temp=NULL; flag=NULL;
	P=NULL;
	0 = 1111 1 .
	printf("It It It It DOUBLY LINKED LIST In"
	printf("It t t t DOUBLY LINKED LIST \n" printf("I) Insert \n");
	printf ("2) Insert after a data \n");
	printf ("3). Display (");
	printf (" 4) Delete m");
	Printt ("5) Exet In");
	printf ("Enton your choice: ");
	Scarf ("Y.d", &ch);
	do
	E. Switch (ch)
	§ case 1: insert();
	break;
	cese 2: print ("In In"); ainsert!
	Page No
	case 2 : print f ("In In"); ainsert break;

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case3: printf("InIn"); display();		
break :		
case 4: delete ();		
break;		
Case 5: break;		
5.		
printf ("ItItIt DOUBLY LINKED LISTIN")		
print ("1) Insert (n"); print ("2) Insert after a data (n");		
printf ("3). Display (");		
Print ("4) Delete (n");		
printf ("5), Exit \n");		
print ("Enter your choice: "); Scanf ("/d", & ch);		
Scanf ("/d", tch);		
Suhile (ch:=5).		
free (start):		
free (temp):		
1 bio (p);		
bree (9);		
return 0;		
3		

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