## Lab Program - 3

	classmate	R
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	3	NAP to simulate the working of a
	100	queue of integers using an array.
		Previde the bollowing operations
		a) Insert b) Delete c) Desplay
		To sert of heint opposite
_		The program should print appropriate
		messages for queue empty and queue
		ouerflow conditions
		; # + 50 = 8.
		#include < stdio.h>
		# define SIZE 5
		ent front 1;
		int rear :-1;
		ent queuetSIZE];
		I (i) of year (i) I
	(11)	int IsEmpty() {
ion		if ((bront) ff rear=-11)
		return 1;
	21	3
		else
		retiern O;
	Torque 1	3
	Way !	
		int Isful(){
		int Istiller = STIF-1) 1
		Grear==SIZE-1) {  printf. ("The queue is beell!");
		neturn 1;
		3
		else
	. ( 4 )	retiern O:
		2
		C
		void Enqueue (int x) h
		(T. F. (L))
		printf ("Element cannot be
		added. (n');

```
returns
    else if (IsEmpty ()) {
         front = 0;
          near = 0;
     queue [rear] = x;
void Dequeue () {
   if (IsEmpty ()) {
      print ("The queue is
       if (front == near) {
         printf ("The element dequeued
                 is : "/- d /n", queue [front]
void display () }
   ib (IsEmpty ())?
     printf ("The queue is empty !");
      return
      printf ("The elements of the
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	Fage	
	for (int i=front; i <= rear; i++) {	
	frint ("It./.d", quere(i);	
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****		
77	int main () {	
	ent n, i;	
	uhile (i11)?	
	prints ("In Enter your choice: In	
	1. Enqueure   n 2. Dequeure   n	
	3. Display In 4, Exet (n'); scanf ("-/-d", gn);	
	ef (n==1) {	
	int item;	
	printp ("Enter the element to	
	be added to the quere !",	
	scarf ("/-d", fitem);	
	Enqueue (item);	
,	else if (n==2) {	
	Pennene ();	
	Dequeue ();	
	else if (n==3) {	
	display ();	
	3	
	else	
	i=-1;	
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