8/1/24		
	a stimulate the working of	_
- ')	Write a program to stimulate the working of the queue of integers using array. Provide	_
	the following sperations: enqueue, doqueue, display.	
	The .	
	The state of the s	
	# include (stdio.h)	
	#include (math h)	
	#indu # include <string b=""></string>	
	# define N 5	
-	int queue[N];	
	int front = -1;	
	void orqueux (Dint 11) {	
	if (rear == N-1){	
	frint (" Overflow");	
	Che if (front == -1) } rear == -() {	
	queue [sear] = n;	
	3	
_	Else {	
-	20xur ++ ',	
	quem [rear] = 21;	
	3	whi
THE RESERVE TO SERVE THE PARTY OF THE PARTY		

dequene () { if (front = = -1) { frint (" Underflow"); else if (front = rear) { fruit The doqueted element is 7.0 queue (front]); place else { front ++; hardy ("The dequenced element is 1.d" que [front]); void display () { for (ind i = front; i <= reas; 1 = i+1) {

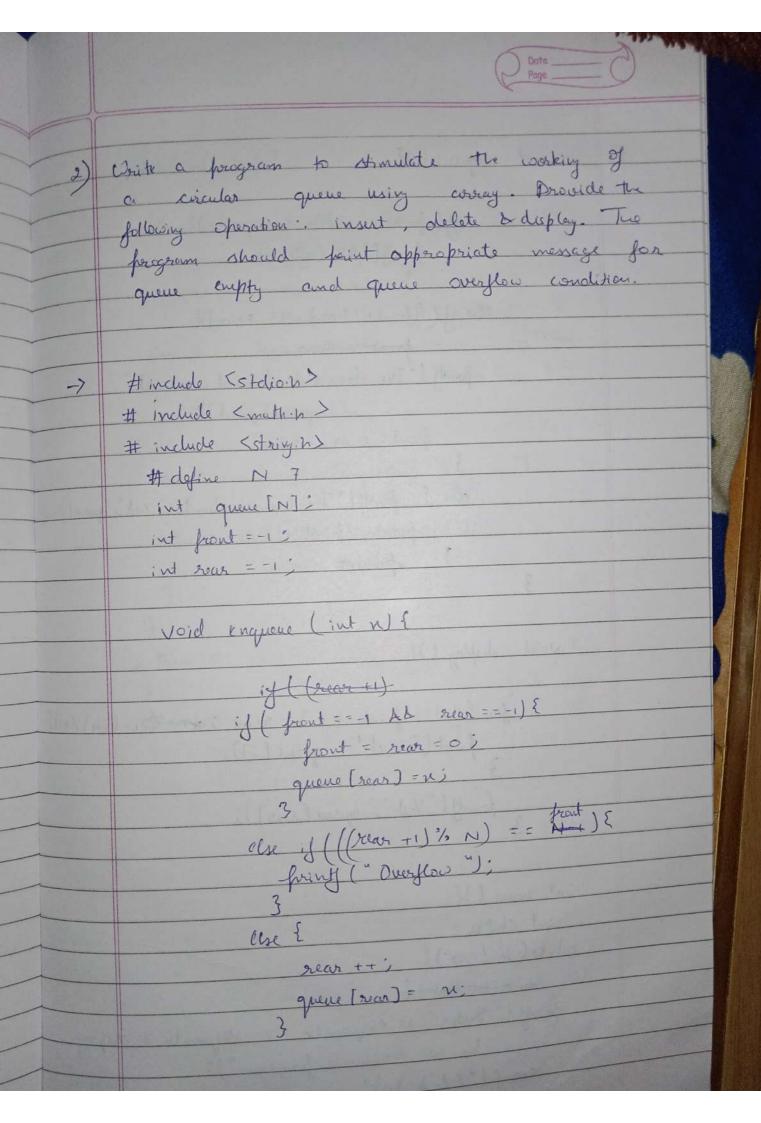
frints (" ") d ", queue [i]); int main () { int chas, ni while(ch!=0){ prints (" Enter 1: enqueue In a: dequeue In

3: chepley In 4: terminate program"); sconf ("/d", tch);

while (ch 00! - 0) { soitch (ch) { Cost 1: frints ("Enter value: ")

scarft "1. d", L n);

enqueue(n); case 2: dequere (): case 3: display (): Case 0: fring (& Terminating personan); default: frivil ("Trivaled input"); brook; Display trogsom:



rood doguen () { if (front == 7 kbs rear == -1) {
front ("DUnderflow"); che if ((front 1) 1. N) == 20 an) { pront = rows (lement is 1.d" queue (frout) front = rear = - 1 else { front [Two dequent element is 'tel', queulfor,
front = (front +1) 1.N1;
} void display 1) { for (ind i = front / i ! = rear ; an + to i = (i+1)//.nll

frint (" /. d 1", queue [i)); 2 print ["1.d", queue [rear]); ; w main () { jut chen; while (h != 0) { Sh soilet (ch) { front 1" Enter 1: Enqueno In 2: dequente 3: desplay sconf ("/d',kch);

switch (ch) { Case 1: fourts (" Enter value: "); sang (" "Id", LN); enqueux (n) preak; Case 2: dequeue (); break; Case 3: display (); lereak ; Case o : print (" Terminating program"); brooki (front) default: prints (" Frivalid input"); break; ecture o', 1/N){

0	ole
	Enter:
	1: Enquire
): Dequeue
	3; Display
	0: Terminate program
	Enter value: 2
	Enter:
	1: Engune
	2: Dequeue
	3'. Display
	0: Terminate program 1
	Enter Value: 3
	Enter:
	1: Enquere
	2; Dequene
	3: Display
	1 leminate program 1
	ruter value: 5
	Suter:
	1: Enqueno
	2: Organe
The state of the s	3: Dicklay
	O: Terminate program i
	Enter value: 8
	Entr:
	1: Enqueue
	7: Dequeue
	3: Displey
	0: Terminete fragram
	inter value: 9

