	LAB PROGRAM (QUEUE) Pege No. Dette 13 10 25
	Write a program to simulate
_	
	print appropriate messages for messages
	the following operation: Insert, Delete Display print appropriate messages for gocue emply and queue overflow condition.
_	
	Psaida rade ula talla de la
1	define size of queue and set front and mar
2	To insert check if rear size-1 if yes then
	otherwise increment value
	of rear by 2 and insirt the element in rear
7	T
_ 5	To delete check if front = -1 is or front>
	rear it yes then print stack undertlow
	otherwise increment value of front by 1.
4	To displantificate and wint through
	To display iterate and print through a loop in the array.
	a doop in the otten
5	Use switch cose in a loop to call appropriate function.
	appropriate function.
	(xate trant 1 1 -= = trant) 7i
- (Joseph () Alaing insulated
	instri
	t t
	17. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

	Proc No.
#include (stdioh)	
# define SIZE 5	void display()
a stable trade postana grandle st	if (front:1)
int queue[SIZE];	s (tront : 2-1)
int front = - t , rear = - 1 is map to	
	printf ("Queue is empty \n"); return;
void enqueue (int value)	return;
7	111111111111111111111111111111111111111
if (rear == SIZE-I)	printf ("Queue elements >"); for (int i - Frant; ix= rear; i++).
\$ 5-20	for (int 1 = Frant; ix= rear; i++).
printf(" Queue Overflowin);	- June 1 in
tameraturn; with unties wall	printf(">d", queucEi]);
there I set to entry be the total and the	2
if (front = = -1)	printf("\n");
a la & tank it had stalet at &	int main()
p front =0;	s maint
Track to many of sources	int at the section of
rear ++;	int choice, value;
	printf ("In Options Available: In");
queue [rear] = value;	printi (1. En Queuc In 2. De Queuc
printf ("Inserted Y.d\n", value);	while (1) While (1)
veid leave	S
void dequeue	printf ("!n");
1123	print t
if (front = = -1 Front 7 rear)	printf(" Enter your choice: ");
1	sconf ("Yd", & choice);
printf ("Queue Underflow\n");	12 (13)
return;	switch (choice)
3	S CONTRACTOR OF THE PARTY OF TH
printf ("Deleted Ydln', queue [front])	cose 1: Salashali sang
front ++;	printf("Enter value to insert
if (front 7 rear)	scanfl'yd", dvaluel;
£ front = rear = -1; 3 3	enqueue (value); break;
rear = T; J J	

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cose 2: () polyab biox dequeue():	
cose 2: dequeue(); break; display(); break;	Inserted 21
break; (Tank)	
case 3:	Enter your Choice:1
display (line)	Enter Value to insert: 22 Inserted 22
break;	Instituted ad
cose 4:	
printfl' Eniting program. In'); return 0;	Enter your choice:1 Enter value to insert: 23
return o;	Inserted 23
default:	
default: printf("Invalid choice"); 3	Enter your choice:1
3	Enter value to insert: 24
3 Par Vitary	Inserted 24
return o;	
3 Daine tai	Enter your choice:1
	Enter value to insirt: 25
Output law exists to	Inserted 25
The Oction Assistant Assistant	
Options Available	Fatr your choice:1
1. En Queue	Enter your choice:1 Enter value to insert: 26
	Queue Overflow
3. Display	3 10 15 Enter your chaice: 2
4. Exit	Deleted 21
The contract of the last of the contract of th	
Enter your choice: 3	Enter your choice: 3
gueue is empty	gueur element: 23 24 25
desired detine	queue en
Enter your choice: 2	The hour choice: 4
Queue Underflow	Enter your choice: 4
	Eniting Program
Enter your choice: 1	
Enter value to insert: 21	
instru, di	

```
Options Available:

    EnQueue

2. DeQueue
Display
4. Exit
Enter your choice: 3
Queue is empty.
Enter your choice: 2
Oueue Underflow
Enter your choice: 1
Enter value to insert: 21
Inserted 21
Enter your choice: 1
Enter value to insert: 22
Inserted 22
Enter your choice: 1
Enter value to insert: 23
Inserted 23
Enter your choice: 1
Enter value to insert: 24
Inserted 24
Enter your choice: 1
Enter value to insert: 25
Inserted 25
Enter your choice: 1
Enter value to insert: 26
Oueue Overflow
Enter your choice: 2
Deleted 21
Enter your choice: 2
Deleted 22
Enter your choice: 3
Oueue elements: 23 24 25
Enter your choice: 4
Exiting program.
```