P19.-6 write a program to implement quece # inelute 25x410-45 # include L conjo. no # define max 5 int quece [max]; int front = -1, rear = 1; int main() int Choice; (185(20); while (1) Printf (" 1. Insert In"); printf(" 2. Delete \n"); Printf (" 3. displany (n"); Printf ("4. Quit to"), Prints (" Enter your choice "); Scanf (" da", & choice), Switch (thoice) case! : insert(); preak; Case 2: cletete selement ();

case 3 : display ()i break; case 4: exito; break; default: printf("In wrong Choice"); insert() 2 int stems if (rear = = max-) Print Cu in queue is overflow"). else É if (front ==-1) front = Oi Prints C" input the element to the added in queul: (n"); Scanf (" -1-d", & ffem); rear = rear +1; queue [recor] = item;

return i Elprint Cu int delete-elementes € if (front = = -1 !! front> rear) & print (" Quece Einder flow (n"); defuso i E Drint ("In element clusted from queue 1.013, Front ++1 veturn; int display () Ein+ is Print ( u queue is \n^), for ( i = front i 12= rear; i++) Printf (" It ded", queue Eij); print ( "In"); of course, 3

## OUTPUT

1. INSERT

J. DELETE

3- DISPIAY

4. QUIT

Enace your choice: 1

insest the element to be added in quene 3

1. INSERT

2. DELETE

3 - DISPLAY

4. QUIT

Enter your choice: 3

Quecle is

2

1. INSERT

2. DELETE

3. DISPLAY

4. QuIT

Enter your choice: 2

Clement deleted from queue 3

```
2.Delete
3.Display
4.Quit
Enter your choice 1
input the element to be added in queue:
3
1. INSERT
2.Delete
3.Display
4.Quit
Enter your choice 3
queue is
1. INSERT
2.Delete
3.Display
4.Quit
Enter your choice Z
element deleted from queue 3
1. INSERT
2.Delete
3.Display
4.Quit
Enter your choice
```

```
File Edit
               Search
                        Run
                             Compile Debug Project
                                                      Options
                                                                 Window
                                                                         Help
                           \TURBOC3\DHANYA\QUEUE.C =
                                                                        =3=[#1:
#include<stdio.h>
#include<conio.h>
#define max 5
int queue[max];
int front=-1, rear=-1;
int main()
int choice:
clrscr();
while(1)
printf("1.IMSERT\n");
printf("Z.Delete\n");
printf("3.Display\n");
printf("4.Quit\n");
printf("Enter your choice");
scanf ("zd", &choice);
switch(choice)
case 1: insert();
        break:
        1:1 ===
        Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile
                                                           F9 Make
                                                                    F10 Menu
F1 Help
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File Edit
                 Search Run Compile Debug Project Options
                                                                      Window Help
                             NTURBOC3NDHANYANQUEUE.C —
                                                                             =3=[#1:
case 2: delete_element();
         break:
case 3: display():
         break:
case 4: exit();
         hreak:
default : printf("\n wrong choice");
insert()
int item:
if (rear==max-1)
printf("\n queue is overflow");
else
lif(front==-1)
\underline{\mathbf{f}}ront=0:
     = 42:1 <del>----</del>(1
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile
                                                              F9 Make
                                                                         F10 Menu
```

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File.
         Edit
                Search Run Compile Debug Project Options
                                                                   Window Help
                            \TURBOC3\DHANYA\QUEUE.C =
                                                                          =3=[#1:
front=0:
printf("imput the element to be added in queue:\n");
scanf ("zd", &item):
rear=rear+1;
queue[rear]=item;
return:
int delete element()
if(front==-1||front>rear)
{printf("Queue underflow"n");
return:
else
printf("\nelement deleted from queue xd\n",queue[front]);
front++:
return;
      = 62:1 <del>----</del>[
```

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu

```
File.
        Edit Search Run
                           Compile Debug Project Options
                                                                Window Help
                          NTURBOC3NDHANYANQUEUE.C —
                                                                      =3=[#1:
if(front==-1||front>rear)
{printf("Queue underflows");
return:
else
printf("\nelement deleted from queue %d\n",queue[front]);
front++;
return:
int display()
int i;
printf("queue is\n");
for(i=front;i<=rear;i++)
printf("\t *d",queue[i]);
printf("\n");
return:
    — 71:1 ——(I
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make
                                                                   F10 Menu
```