

Output

1. insert

2. delete

3. display

4. quit

enter your choice : 1

input the element to be added in
queue : 4

1. insert

2. delete

3. display

4. quit

enter your choice : 1

input the element to be added in
queue : 7

1. insert

2. delete

3. display

4. quit

enter your choice : 3

Program No: 6

Program to implement queue

Program

```

5 #include<stdio.h>
6 #include<conio.h>
7 #define max 5
8 int queue[max];
9 int front = -1, rear = -1;
10 int main()
11 {
12     int choice;
13     clrscr();
14     while(1)
15     {
16         printf("1. Insert\n");
17         printf("2. delete\n");
18         printf("3. display\n");
19         printf("4. quit\n");
20         printf("enter your choice: ");
21         scanf("%d", &choice);
22         switch(choice)
23         {
24             case 1 : insert();
25             break;
26             case 2 : delete_element();
27         }
28     }
29 }
```

queue is : 4
1. insert
2. delete
3. display
4. quit
enter your choice : 2

element deleted from queue is 4

1. insert
2. delete
3. display
4. quit

enter your choice : 3

queue is : 7

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break;
case 3 : display();
break;
case 4 : exit();
break;
default : printf("wrong choice");
}
}
}
}
10 insert()
{
int additem;
if (rear == max - 1)
}
15 printf("In queue overflow");
}
else
}
if (front == -1)
20 front = 0;
printf("In input the element to be added in
queue: ");
scanf("%d", &additem);
rear = rear + 1;
25 queue [rear] = additem;
}

return;

}

int delete_element()

{

5 if (front == -1 || front > rear)

{

printf ("In queue underflow");

return;

}

10 else

{

printf ("An element deleted from queue is %d
15 in ", queue[front]);

front++;

return;

}

}

int display()

{

20 int i;

printf ("In queue is :");

for (i = front; i <= rear; i++)

{

printf (" %d", queue[i]);

25 printf ("In ");

{

return; }

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

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```
1.insert
2.delete
3.display
4. quit
enter your choice: 1

input the element to be added in queue: 4
1.insert
2.delete
3.display
4. quit
enter your choice: 1

input the element to be added in queue: 7
1.insert
2.delete
3.display
4. quit
enter your choice:
```

DOSBox DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

3.display

4. quit

enter your choice: 3

queue is: 4

7

1.insert

2.delete

3.display

4. quit

enter your choice: 2

element deleted from queue is 4

1.insert

2.delete

3.display

4. quit

enter your choice: 3

queue is: 7

1.insert

2.delete

3.display

4. quit

enter your choice: