

## **Queue Code**

1 message

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```
#include <iostream>
using namespace std;
int queue[100], n = 100, front = - 1, rear = - 1;
void Insert() {
 int val;
 if (rear == n - 1)
 cout<<"Queue Overflow"<<endl;
 else {
   if (front == -1)
   front = 0;
   cout<<"Insert the element in queue : "<<endl;
   cin>>val;
   rear++;
   queue[rear] = val;
void Delete() {
 if (front == - 1 || front > rear) {
```

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cout<<"Queue Underflow ";
   return;
 } else {
   cout<<"Element deleted from queue is: "<<
queue[front] <<endl;
   front++;;
void Display() {
 if (front == -1)
 cout<<"Queue is empty"<<endl;
 else {
   cout<<"Queue elements are: ";
   for (int i = front; i <= rear; i++)
   cout<<queue[i]<<" ";
     cout<<endl;
int main() {
 int ch;
 cout<<"1) Insert element to queue"<<endl;
 cout<<"2) Delete element from queue"<<endl;
 cout<<"3) Display all the elements of queue"<<endl;
```

```
cout<<"4) Exit"<<endl;
 do {
   cout<<"Enter your choice: "<<endl;
   cin>>ch;
   switch (ch) {
     case 1: Insert();
     break;
     case 2: Delete();
     break;
     case 3: Display();
     break;
     case 4: cout<<"Exit"<<endl;
     break;
     default: cout<<"Invalid choice"<<endl;
 } while(ch!=4);
 return 0;
}
The output of the above program is as follows
1) Insert element to queue
2) Delete element from queue
3) Display all the elements of queue
```

4) Exit

Enter your choice: 1

Insert the element in queue: 4

Enter your choice: 1

Insert the element in queue: 3

Enter your choice: 1

Insert the element in queue: 5

Enter your choice: 2

Element deleted from queue is: 4

Enter your choice: 3

Queue elements are: 35

Enter your choice: 7

Invalid choice

Enter your choice: 4

**Exit** 

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