#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) {

      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 : 3 5

Enter your choice : 7

Invalid choice

Enter your choice : 4

Exit