6.1program that Implements ordinary Queue using array

#include <iostream> #include<stdlib.h> 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 : "; 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<<"\n1. Insert element to queue"; cout<<"\n2. Delete element from queue"; cout<<"\n3. Display all the elements of queue"; cout<<"\n4. Exit"<<endl;

do {

cout<<"Enter your choice : "; 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;

}