**Queue data structure**

**Implementation of queue**

**The program that implements the queue using an array**

#include <iostream>

using namespace std;

int queue[100], n = 100, head = - 1, tail = - 1;

void Enqueue() {

int val;

if (tail == n - 1)

cout<<"Queue Overflow"<<endl;

else {

if (head == - 1)

head = 0;

cout<<"Insert the element in queue : "<<endl;

cin>>val;

tail++;

queue[tail] = val;

}

}

void Dequeue() {

if (head == - 1 || head > tail) {

cout<<"Queue Underflow ";

return ;

} else {

cout<<"Element deleted from queue is : "<< queue[head] <<endl;

head++;

}

}

void Display() {

if (head == - 1)

cout<<"Queue is empty"<<endl;

else {

cout<<"Queue elements are : ";

for (int i = head; i <= tail; i++)

cout<<queue[i]<<" ";

cout<<endl;

}

}

int main() {

int i;

for(i=0;i<5;i++) Enqueue();

Dequeue();

Dequeue();

Display();

return 0;

}

Insert the element in queue :

1

Insert the element in queue :

2

Insert the element in queue :

3

Insert the element in queue :

4

Insert the element in queue :

5

Element deleted from queue is : 1

Element deleted from queue is : 2

Queue elements are : 3 4 5