



INDIAN SCHOOL MUSCAT
SENIOR SECTION
DEPARTMENT OF COMPUTER SCIENCE
CLASS XII

TOPIC: IMPLEMENTATION OF QUEUE
LAB WORKSHEET - 9

1.	<p>Considering the following code is given in the program write a menu driven program to do the following menu operations for a queue as an array.</p> <pre>struct QUEUE { char Data[10] ; int rear, front ; } S1 ; void Queue() { S1.rear = S1.front = - 1 ;} void Insert() ; void Delete(); void Isempty(); void Isfull(); void Count(); void Display();</pre> <p style="text-align: center;">MENU -----</p> <ol style="list-style-type: none">a. Insert an element to a queue.b. Delete an element from a queue.c. Check whether the queue is empty.d. Check whether the queue is full.e. Count the number of elements in the queue.f. Display the elements in the queue. <p>Enter your choice(a to f):</p>
2.	<p>Considering the following code is given in the program write a menu driven program to do the following menu operations for a queue as a linked list (dynamic queue).</p> <pre>struct node { char name[25] ; long int Telno ; node *link ; }; class QUEUE { node *FRONT, *REAR; public: QUEUE() { FRONT = REAR = NULL;} ~QUEUE() { cout<< "\Destroying queue"; }</pre>

```
void Insert() ;  
void Delete();  
void Isempty();  
void Count();  
void Display();  
};
```

MENU

- a. Insert an element to a queue.
- b. Delete an element from a queue.
- c. Check whether the queue is empty.
- d. Count the number of elements in the queue.
- e. Display the elements in the queue.

Enter your choice(a to e):