LAB 10

**Queue**

1. Write a menu driven program to implement linear queue using array and switch-case with following options :

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

**Runtime Test Cases**

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 1

Input the element for adding in queue : 1

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 1

Input the element for adding in queue : 2

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 1

Input the element for adding in queue : 3

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 1

Input the element for adding in queue : 4

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 4

Queue is :

1  2  3  4

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 3

Element at the front is 1

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 2

Deleted element is  1

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 2

Deleted element is  2

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 2

Deleted element is  3

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 2

Deleted element is  4

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

Enter your choice : 2

Queue Underflow

1. Write a menu driven program to implement circular queue using array and switch-case with following options :

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

[Note: Output Test cases are same as in Que. 1]

1. Write a menu driven program to implement linear queue using linked list and switch-case with following options :

1.Insert

2.Delete

3.Display element at the front

4.Display all elements of the queue

5.Quit

[Note: Output Test cases are same as in Que. 1]

1. WAP to implement priority queue with its basic operations.