

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

2. 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]

3. 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]

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