**Algorithm of Linear queue: FIFO**

1. Declare necessary variable:

size=5, front=0, rear=-1, queue[size], count=0

1. For **Enqueue** operation:

Check queue full or not

**If** queue is full i.e. **rear==size-1**

Display “**The queue is full**” message.

Stop.

**else or if queue is not full**

Read the data/element to be stored

Increment rear by 1 **i.e. rear=rear+1**

**queue[rear]=newdata**

**Increment count by 1 i.e. count++**

1. To enqueue next data, repeat step 2.
2. For **Dequeue** operation:

Check queue is empty or not

**If** queue is empty i.e. **rear<front**

Display “**The queue is empty**” message.

Stop.

**else or if queue is not empty**

Display the value of **queue[front]**

Increment front by 1 **i.e front=front+1**

**Decrement count by 1 i.e. count--**

1. To dequeue next data, repeat step 4.
2. Stop