

IMPLEMENTATION OF QUEUE USING ARRAYS

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AIM: Write a program to implement
Queue using arrays

Data structures used:

Primitive - int, char.

Queue, array

Operations Performed on Queue:

- Insertion
- Deletion
- Is Empty
- Show Front Element
- Display

ALGORITHMS

- Insertion:

```
if (rear == null)
    rear = front = 0
    queue[0] = item
else if (rear == n-1)
    print ("Queue full")
else
    queue[rear + 1] = item
    rear = rear + 1
end
```

Deletion :

```
if (front == null)
    print ("Queue Empty")
else
    items = Queue { front }
    if (front == rear)
        front = rear = null;
    else:
        front = front + 1
end .
```

Is Empty

returns front == null .

show Front Element

```
if (front == null)
    print ("Queue empty")
else
    print (Queue { front } );
```