Lab 3

IBM19CS200
Karthik Deepak
D2 batch

Queues, Dequeues And Enqueues

Psuedo Code

```
int A[SIZE]
front <- -1
rear <- -1


Enqueue [x]
{
    if (IsFull())
        printf (" Queue is Full ")
        else if ( IsEmpty ())
        {
            front <- rear <- 0  }
        else
            { rear <- rear +1
            }
            A[rear] <- X
}


Dequeue ()
{
    if (Is Empty())
        printf ("Queue is Empty ")
        else if (front == rear )
        {
            front <- rear <- -1
        }
        else
        {
            front <- front + 1
        }
}
```

```
IsFull ()
{    if (rear == size(a) - 1) return True
        else
        return False
}

IsEmpty ()
{
    if (front == -1 && rear == -1)
        return true
    else
    return false
}
```