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Expt. No. Lab - 5 Page No.

Implementation of Circular Queue.

```
A[SIZE]
FRONT = 1
REAR = -1

Is Full ()
{
if {front == (rear + 1) % N)
   return True
 else
 return False
}
 IsEmpty( )
{
if(front == -1 && rear == -1)
   return True
else
return False
}

Enqueue (x)
{
if (Is Full())
Print ("Q is Full")
else if (Is Empty())
front <- rear <- 0
else
```

Teacher's Signature :

```
rear <- (rear + 1) % N
 A [rear] = x
}
Dequeue ()
{
 if (Is Empty())
printf ("Q is Empty")
else if (front == rear)
  x <- A[front]
  front <- rear <- -1
  else
  { x <- A[front]
front <- (front + 1)% N
  }
  return x
 }
```