12/10/2020

Queue implementation :-

Pseudo code :

```
# define queue size 50
int queue[size]
rear = -1 ; front = -1 ;
IsFull()
{ if (rear = size-1)
    return true;
  else
    return false;
}
IsEmpty
{ if(front == -1 && rear == -1)
    return true;
  else
    return false;
}
Insert (x)
{ if(IsFull())
    printf ("Q is Full")
  else if(IsEmpty())
    front = rear = 0
  else
  { rear = rear + 1
    queue[rear] = x
  }
}
```

```
Delete()
{
  if(IsEmpty())
    printf("Q is Empty");
  else if(front==rear)
    { x=queue[front]
      front = rear = -1
    }
  else
    { x=queue[front]
      front = front+1;
    }
    return x;
  }
display()
{   if(front==-1)
      Printf("queue is empty");
    int i;
    for(i=front; i<=rear; i++)
      printf("%d", queue[i]);
    }
}
```