WEEK 4

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1) WAP to simulate the working of a queue of integers using an array. Provide the following operations —
(a) insert
(b) delete
(c) display
The program should print appropriate messages for queue empty and queue overflow conditions

```
int rear = -1;
int front= -1;

display ()
 {
   if (front==-1)
     queue empty
else
    {
      for(i to front, i<= rear, i++)
    }
}

insert()
{
  if (rear == MAX-1)
    queue Overflow
else
```

```
{
  if(font==-1)
    font=0;
    Insert element
    rear= rear +1;
  queue[rear]= item;
}

delete()
{
  if (font==-1 || font >rear)
    {
    (queue underflow)
    }
else
    { font=font+1;
    }
}
```