```
n = 5
fact =1
sum = 0
for( i = n ; i>0;i--)
{
    fact = fact * i

    if(i == 1)
    {
        sum = sum + i+ "= "
    }
    else
    {
        sum = sum + i + "*"
    }

}
console.log("the factorial of "+n+" is "+sum +""+fact)



 a = [1,2,3,4,5,6,9,8]

seq = true ;
for(i=0;i<a.length-1;i++)
{
  if(a[i]+1 !== a[i+1])
  {
      seq = false;
      break;

  }
}
if(seq)
{
    console.log("the given number is in squence format : "+a.join("") +" :
"+seq);
}
else
{
     console.log("the given number is not in squence format : "+a.join("") +" :
"+seq);

}

// a[0]=1+1 = a[1] = 2
//console.log(3!==2) if we have same numbers will get false if dif numbers true



a = "4533"
img = true
temp=0
for(i=0;i<a.length;i++)
```

```
{
    count=0
    for(j=i+1;j<a.length;j++)
    {
        if(a[i] == a[j])
        {
            count++
            break
        }
    }
    temp=temp+count

}
 if(temp > 0)
    {
        img = false;
    }

if(img)
{
    console.log("there is no duplicate values in given number : "+a+" "+ img)
}
else
{
     console.log("there is duplicate values in given number : "+a+" "+img)
}
```

o/p:

the factorial of 5 is 5*4*3*2*1= 120
the given number is not in squence format : 12345698 : false
there is duplicate values in given number : 4533 false