How To Find Factorial & No Of Trailing Zeros In A Factorial Of A Number In Python?

In this tutorial, we are going to learn how to calculate the factorial of a given number, and also, we are going to find the number of trailing zeroes in that number.

Now let's see what a **Factorial** is. A **factorial** is a function that multiplies a number by every number below it. For example 7!= 7*6*5*4*3*2*1=5040.

Now to generate the factorial of a given number, we are going to be using the recursive approach because it is easy. We will create a class as *factorial()* and put a recursive function there to calculate the factorial.

Now to find the number of trailing zeroes of that factorial, we will be using a *while loop*, where we will count the numbers and then return the trailing zeroes of that factorial number. For better understanding, watch the video.

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```
def factorial(number):
    if number==0 or number==1:
        return 1
    else:
        return number * factorial(number-1)

def factorialTrailingZeroes(number):
```

```
    #fac = factorial(number)
    #print(fac)
    count = 0
    i = 5
    while (number//i !=0):
        count+= int(number/i)
        i = i*5
    return count
    #while (fac%10 ==0):
        #count = count+1
        #fac = fac/10
    #return count

if __name__ == '__main__':
    number = int(input("Enter a number: \n"))
    #fac = factorial(number)
    #print(f'The factorial is {fac}')
    print(factorialTrailingZeroes(number))
```

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