

-: Program :-

Write a function that calculates factorial of a number n.

-: Code :-

```
def fact(num):  
    fact_str = ""  
    fact = 1  
    while num:  
        if num > 1:  
            fact_str += str(num) + " * "  
        else:  
            fact_str += str(num)  
        fact *= num  
        num -= 1  
    return fact_str, fact  
  
num = int(input("Enter the Number: "))  
fact = fact(num)  
print(str(num)+"!", fact[0], fact[1], sep=" = ")
```

-: Output :-

```
● n3.12.exe" "c:/Users/Anshumank Sah  
Enter the Number: 5  
5! = 5 * 4 * 3 * 2 * 1 = 120  
○ PS C:\Users\Anshumank Sahay\Desкто
```