**Recurssion**

**Factorial**

**def** fact(n):  
 **if** n > **0**:  
 result = n \* fact(n - **1**)  
 **return** result *# Return the result of the multiplication* **else**:  
 **return 1** *# Base case: return 1 when n is 0 or negative*print(**"Your answer is:"**, fact(**3**)) *# Call the function and print the final result*

output

Your answer is: 6

factorial

**def** fact(f):  
 **if** f==**0**:  
 **return 1  
 else** :  
 ans=f\*fact(f-**1**)  
 **return** ans  
 *# print(ans)*n=int(input(**'enter the number to find factorial'**))  
  
fact(n)  
print(**'factorial is : '**,fact(n))

Output

enter the number to find factorial: 5

factorial is : 120

*fibinocci using recursion*

**def** fib(n):  
 **if** (n <= **1**):  
 **return** n  
 **else**:  
 **return** (fib(n - **1**) + fib(n - **2**))  
  
n = int(input(**"Enter number of terms:"**))  
print(**"Fibonacci serires:"**)  
**for** i **in** range(n):  
 print(fib(i), end=**""**)

outout

Enter number of terms:5

Fibonacci serires:

01123