

## TASK 5

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### RECURSIVE FUNCTION

#### 1. Sum of n number

##### PROGRAM:

```
def sum_of_N(n):  
    if n == 0:  
        return 0  
    else:  
        return n + sum_of_N(n - 1)  
  
n = int(input("Enter the number of terms: "))  
print("Sum of", n, "numbers is:", sum_of_N(n))
```

##### OUTPUT:

Enter the number of terms: 68  
Sum of 68 numbers is: 2346

#### 2. Product of n number

##### PROGRAM:

```
def product_of_N(n):  
    if n == 1:  
        return 1  
    else:  
        return n * product_of_N(n - 1)  
  
n = int(input("Enter the number: "))  
  
print("Product of", n, "numbers is:", product_of_N(n))
```

##### OUTPUT:

Enter the number: 11  
Product of 11 numbers is: 39916800