Function in python

function is a block of code that be reused in a program:

factorial of a number is the product of all the positive integers less than or equal to the number

factorial of 5= 5x4x3x2x1=120

```python
In [5]: number=int(input("enter a number to find its factorial :"))
        factorial=1
        if number==0:
            print("the factorial of 0 is 1")

        else:
            for i in range(1,number+1):#range(1,6)
                factorial=factorial*i
        print("the factorial of ",number,"is ",factorial)
```

```
enter a number to find its factorial :4
the factorial of  4 is  24
```

Factorial function

```python
In [27]: def factorial_value(num):
             factorial=1
             if num==0:
                 return factorial

             else:
                 for i in range(1,num+1):
                     factorial=factorial*i
                 return factorial
```

```python
In [29]: print(factorial_value(10))
```

```
3628800
```

thanku

```python
In [ ]:
```