

## ASSIGNMENT-4

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We can calculate the factorial of n number and store them in a dictionary in python

Factorial of n numbers:-

```
def fact(n):  
    if n==0:  
        return 1  
    else:  
        return n*fact(n-1)
```

n-value: [1, 2, 3, 4, 5]

factorial-dict = {}

for n in n-values:

factorial-dict[n] = fact(n)

print(factorial-dict)

In this code:-

- we define a 'factorial' function to find factorial of a number
- we create a list 'n-values' containing numbers for which you want to calculate factorial.
- we initialize empty dictionary 'factorial-dict'
- we iterate through values in 'n-values' calculate the factorial using function & store the result in 'factorial-dict'
- Finally we print the 'factorial-dict' to see the dictionary values.



Output:

Factorial of n numbers.

{1:1, 2:2, 3:6, 4:24, 5:120}