Writing base cases in Recursion

① Factorial n where $n \geq 0$

I/P : n=4

o/p : 24

I/P : n=0

o/p : 1

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

② n-th Fibonacci number where $n \geq 0$

I/P : n=4

o/p : 3

I/P : n=0

o/p : 0

The first few are

0, 1, 1, 2, 3, 5, 8, ...

```
def fib(n):
    if n==0:
        return 0
    elif n==1:
        return 1
    else:
        return fib(n-1)+fib(n-2)
```