Functions

- $\Rightarrow$ Defining functions in python
- $\Rightarrow$ Arguments/parameters in function
- $\Rightarrow$ Docstring
- $\Rightarrow$ return vs print

mobile No
8586836627

$t = 0$

$i = 1$

i	t
1	$t = 0+1$
2	$t = 2+1$
3	$t = 3+3$
4	$t = 10$
5	$t = 15$
6	X

$(1 + 2 + 3 + 4 + 5)$

$\Rightarrow \dfrac{n \times (n+1)}{2} \Rightarrow \dfrac{5 \times 6}{2}$

$\Rightarrow 15$

$1 \times 2 \times 3 \times \ldots n \Rightarrow n!$

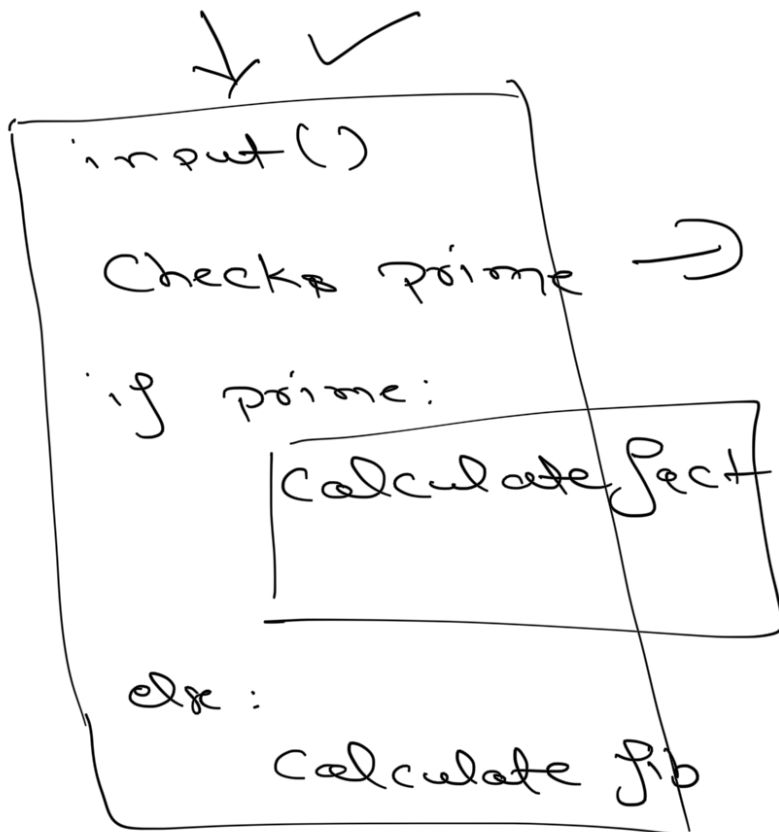$\Rightarrow$ Function :- Why do we need?

① Reusability :

Function can be
executed as many
times as needed

② Flexibility : Function can
be used in different
context with different
argument

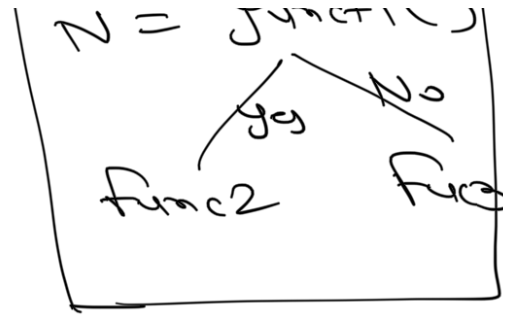③ Modularity : Easy to read
easy to debug
Test

Non-modular

↓ ✓

input ( )

Checks prime →

if prime :

| Calculate fact |

else :

Calculate fib

| Function
Check prime |

| Function
Calc-fact |

| Function
Calc-fib |

| N=input ( ) |

$N = \text{function}$

Yes   No

func2   Fu2

Keyword   Custom
function Name

↓   ↓

def   func_name( ) :

logic
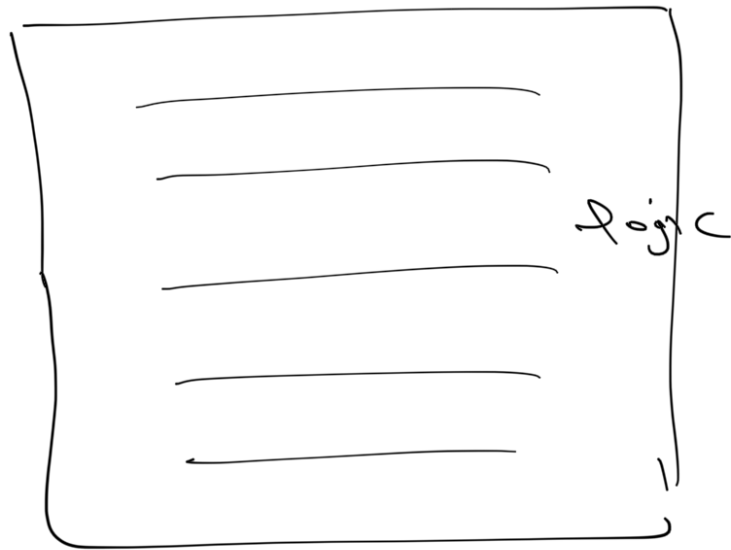
func_name( )

Parameters

↗ ↑ ↖

→ def   some_funct (a, b, c)

     print (a)
     print (b)

Some_func(1 , 'A' , '#')

Arguments

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return   vs   print