11.Functions

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1 Functions

1.1 Why functions?

- Semantic enrichment of code
- Reusability

Without function

```
In [1]: t0 = 12

t1 = -35

t2 = 144

f0 = t0 * 9 / 5 + 32

f1 = t1 * 9 / 5 + 32

f2 = t2 * 9 / 5 + 32
```

With function

1.2 Function morphology

Definition

```
def function_name(parameter1, parameter2):
    function_body
   Usage
a = 3
function_name(a, 'Qua-qua')
   For example
print("Hi, guys")
   print - function name
"Hi, guys" - argument
In [1]: # Definition of function with 0 arguments
        def function_example():
            print('!')
In [4]: # Usage
        function_example()
!
In [5]: # Simple function
        def greet():
            print('Hi there')
In [6]: greet()
Hi there
In [7]: # Function with 1 argument called name
        def greet(name):
            print('Hi there', name)
In [8]: # Usage
        greet('Vasya')
Hi there Vasya
```

In the moment of line execution with that function usage passed argument binds with argument in function

In the previous example this takes place name = 'Vasya'

After that function body operates with the passed value as a variable called name