

Python Programming

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TOPICS Python Fundamentals and Programming

Functions

Function

Sometimes we want to do a job, a calculation, or anything, in more than one place of our code, in these time to get rid of repeating a job that has a same code in different places, we use function.

Functions help us from repeating a part of code and make our program more readable, and easier to debug.

Function

So, a function is a block of code which only runs when it is called. Also we can pass data, known as parameters, into a function and a function can also return data as a result to the program and that line we have call it too.

Creating a function

def is function keyword, you can use this keyword to create a function.

Syntax: def function_name():

```
def my_function():
    print("Hello from a function")

my_function()
```

Number of arguments

By default a function must be called with the correct number of arguments. Meaning that if your function expects 2 arguments, you have to call the function with 2 arguments, not more, not less.

Exercise #1

Research about *args in function arguments?

Research about default parameters value for the function.

Return values

A function can returns its result too

```
def my_function(x):
    return 5 * x

print(my_function(3))
print(my_function(5))
print(my_function(9))
```

Exercise #2

Research about lambda() method in python