

# What is Function in Python?

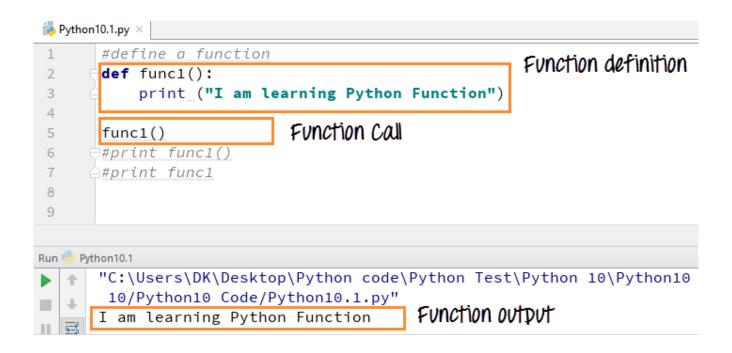
A **Function in Python** is a piece of code which runs when it is referenced. It is used to utilize the code in more than one place in a program. It is also called method or procedure. Python provides many inbuilt functions like print(), input(), compile(), exec(), etc. but it also gives freedom to create your own functions.

## How to define and call a function in Python

Function in Python is defined by the "def" statement followed by the function name and parentheses ( () )

#### **Example:**

Let us define a function by using the command " **def func1():**" and call the function. The output of the function will be "I am learning Python function".



The function **print func1()** calls our def func1(): and print the command "I am learning Python function."

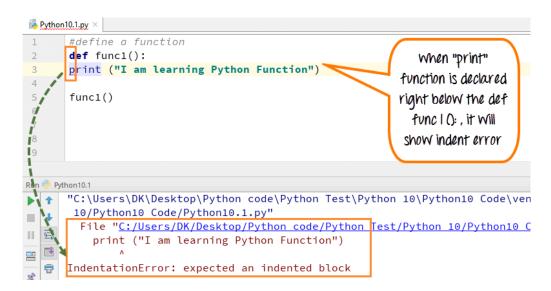
There are set of rules in Python to define a function.

- •Any args or input parameters should be placed within these parentheses
- ●The function first statement can be an optional statementdocstring or the documentation string of the function
- ■The code within every function starts with a colon (:) and should be indented (space)
- ●The statement return (expression) exits a function, optionally passing back a value to the caller. A return statement with no args is the same as return None.

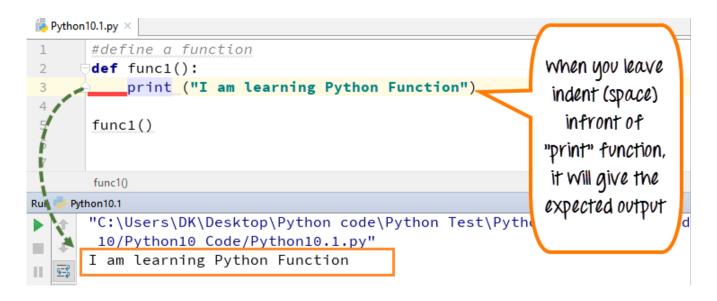
# Significance of Indentation (Space) in Python

Before we get familiarize with Python functions, it is important that we understand the indentation rule to declare Python functions and these rules are applicable to other elements of Python as well like declaring conditions, loops or variable.

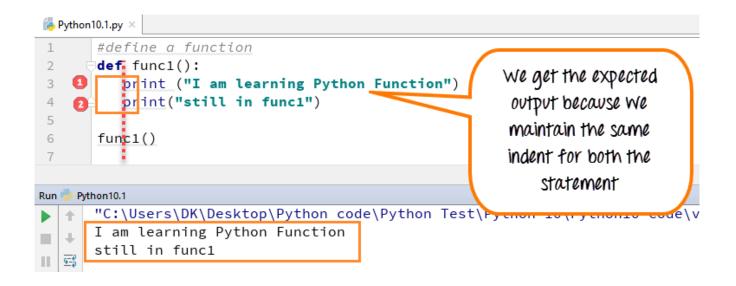
Python follows a particular style of indentation to define the code, since Python functions don't have any explicit begin or end like curly braces to indicate the start and stop for the function, they have to rely on this indentation. Here we take a simple example with "print" command. When we write "print" function right below the def func 1(): It will show an "indentation error: expected an indented block".



Now, when you add the indent (space) in front of "print" function, it should print as expected.



Now, when we apply same indentation incase we have 2 statements to print and align them in the same line, it gives the expected output.



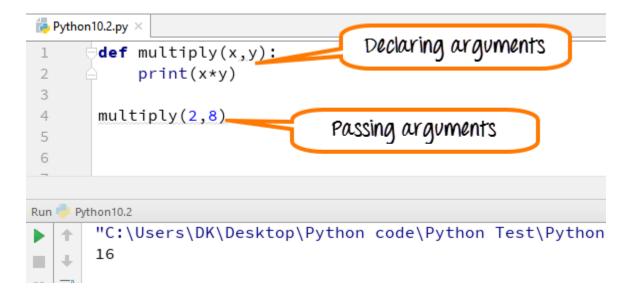
## **Arguments in Functions**

The argument is a value that is passed to the function when it's called.

In other words on the calling side, it is an argument and on the function side it is a parameter.

### Let see how Python Args works -

**Step 1)** Arguments are declared in the function definition. While calling the function, you can pass the values for that args as shown below



Read more

https://www.geeksforgeeks.org/python-functions/