1/ Why should we use functions at all?

* Their primary purpose is to help us organize programs into chunks that match how we think about the problem.

2/ How to define/declare a function?

* A sequence of statements have to be indented from the def.
* The syntax for a function definition is:

def NAME( PARAMETERS ):

STATEMENTS

3/ How to call/use a function?

* Function calls contain the name of the function being executed followed by a list of values, called arguments, which are assigned to the parameters in the function definition.

4/ What is return, why and how do we use it?

* “Return” is the way a function returns a value outside the function
* The reason why we need “return” is that if we don’t use return, we cannot use the values produced from the function after the function executes.
* How we can use “return”: inside the function, type return + value (this is the value we choose to return from the function)

5/ Do we have to use return in **every** function?

* No. In Python, if you don’t use return, the program will return a value to None. In other languages, there is a type of functions that is not executed for its resulting value, but is executed because it does something useful. It’s called “void functions” in languages like Java, C#, C and C++ , other languages like Pascal call it a procedure.

6/ What are function arguments/parameters, why and how we use it?

* Function arguments/parameters are functions that have values getting passed (called parameters). The arguments can be either simple values or expressions.
* Why we use function arguments/parameters: most functions require arguments/parameters as the input for the functions to execute.
* How can we use arguments/parameters:

We put parameters in () in the ends of def function\_name and use the parameters below that. For example:

def Function\_Name (Parameter 1, Parameter 2,…):

Statements using parameter 1, 2….here

7/ How to use function from a different file other than our currently working file?

Function file name: abc.py (the function file is in the same folder with our currently working file). You can use 2 ways:

* Syntax 1:

Import:

import abc

Call function:

abc.function\_name(parameters)

* Syntax 2:

Import:

from abc import function\_name1, function\_name2,…

Call function:

function\_name1(parameters)

function\_name2(parameters)