* Why should we use functions at all?

We use function to help us organize programs into chunks that match how we think about the problem.

* How to define/declare a function?
* Function definitions are the second of several compound statements we will see, all of which have the same pattern:

1. A header line which begins with a keyword and ends with a colon.

2. A body consisting of one or more Python statements, each indented the same amount — the Python style guide recommends 4 spaces — from the header line.

* How to call/use a function?
* We can make up any names we want for the functions we create, except that we can’t use a name that is a Python keyword, and the names must follow the rules for legal identifiers.
* There can be any number of statements inside the function, but they have to be indented from the def.
* A function is a named sequence of statements that belong together. To use function, we write:

def NAME ( PARAMETERS ):

STATEMENTS

* What is return, why and how do we use it?
* The *return* statement is followed an expression. This expression will be evaluated and returned to the caller as the “fruit” of calling this function.
* We use return functions and functions that return values (fruitful function) to build more complex expressions.
* An example of how do we use return can be:

def final\_amt (p, r, n, t):

a = p \* (1 + r/n) \*\* (n\*t)

return a

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

We don’t have to use return in every function.

* What are function arguments/parameters, why and how we use it?
* Arguments is a value provided to a function when the function is called.
* Parameter is a name used inside a function to refer to the value which was passed to it as an argument.
* How to use function from a different file other than our currently working file?

from *name\_of\_file* import *def*  
or

import *name\_of\_file*

*name\_of\_file*.*def*