

- Pa2 ext. by 1 day only
- Pa3 is Posted

Chapter 3 : Functions

A function is a named set of instructions in a program.

functions in two contexts

- function definitions

- function calls ← all we've seen so far.

Ex. print()
input()
math.factorial()
turtle.Screen()

to call a function means to execute its instructions.

To define a function use def keyword.

template for a fn. definition

```
def fn_name (Parameter_list) :
    statement
    statement
    ...
    statement
# end fn_name
```

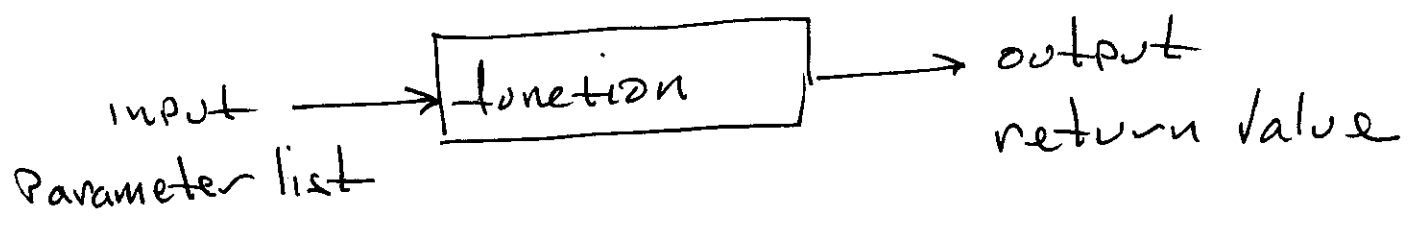
indent →

← function body

The identifier `fn_name` follows same rules as for variables.

- letters, underscore & digits
- may not begin with a digit
- may not be a keyword.

A function can be thought of as a machine that takes input, and produce output



Function Parameters are variables used to store the function's input. appear in definition.

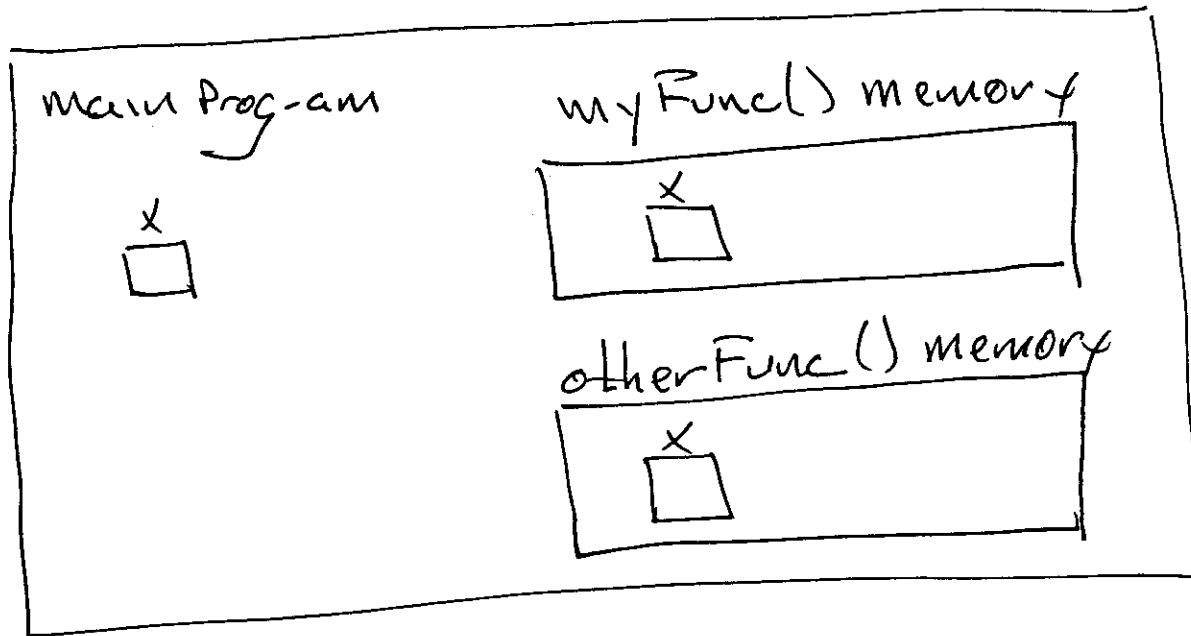
Ex, Function1.py
Function2.py

function arguments are values used as input to the function. appear in function call.

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note: function Parameters are
local to body of fun.

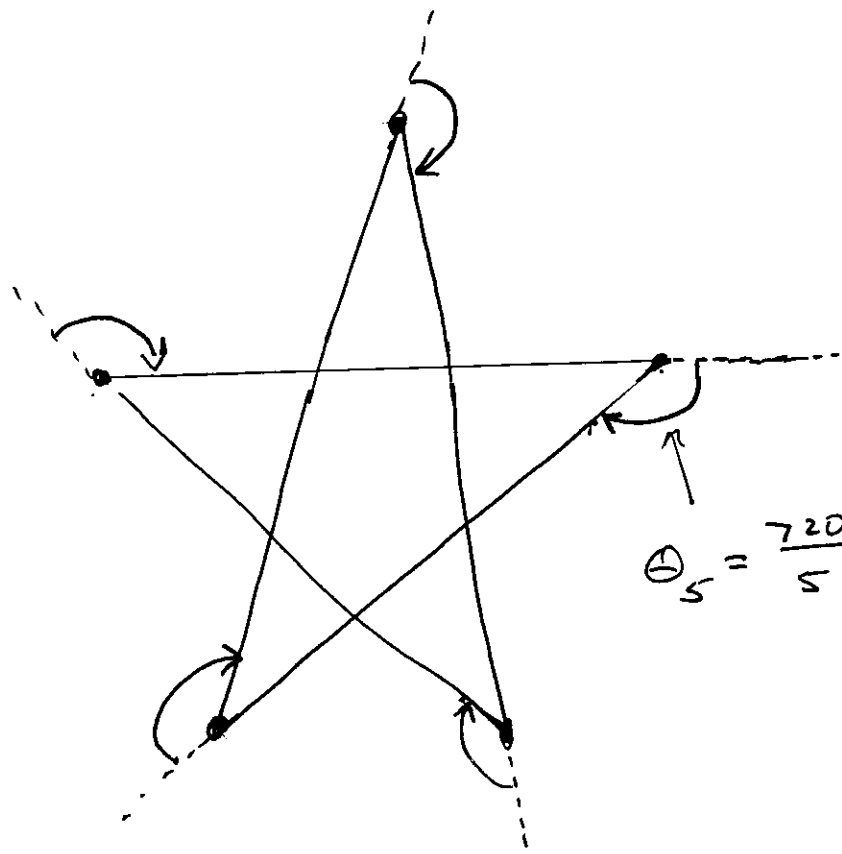
memory area for Program



The scope of a variable is
the area of the Program
from which it is accessible.

Ex, circle 2.Py

Questions on Pa 2



$$\theta_5 = \frac{720}{5} = \frac{2 \cdot 360}{5} = 144^\circ$$