



PYTHON

PYTHON FUNCTION

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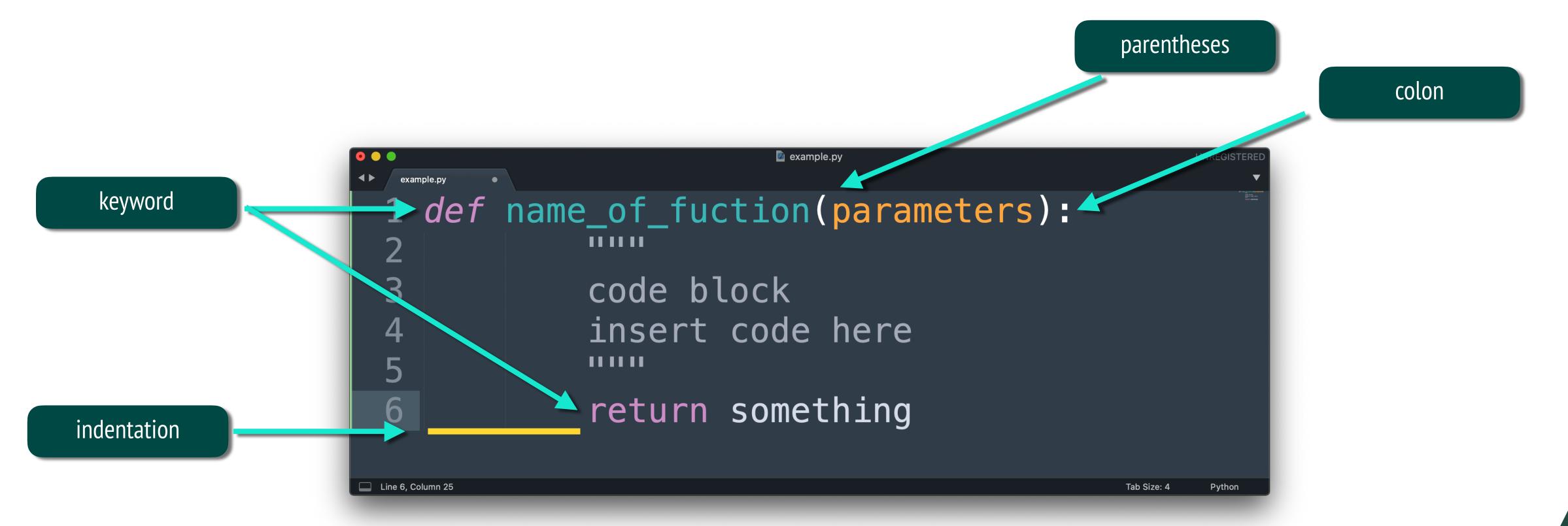
OUTLINE



- Definition
- Function construction
- Function parameter
- Assignment

DEFINITION

- A function is a block of code which only runs when it is called
- You can pass data, known as parameters, into a function
- A function can return data as a result.



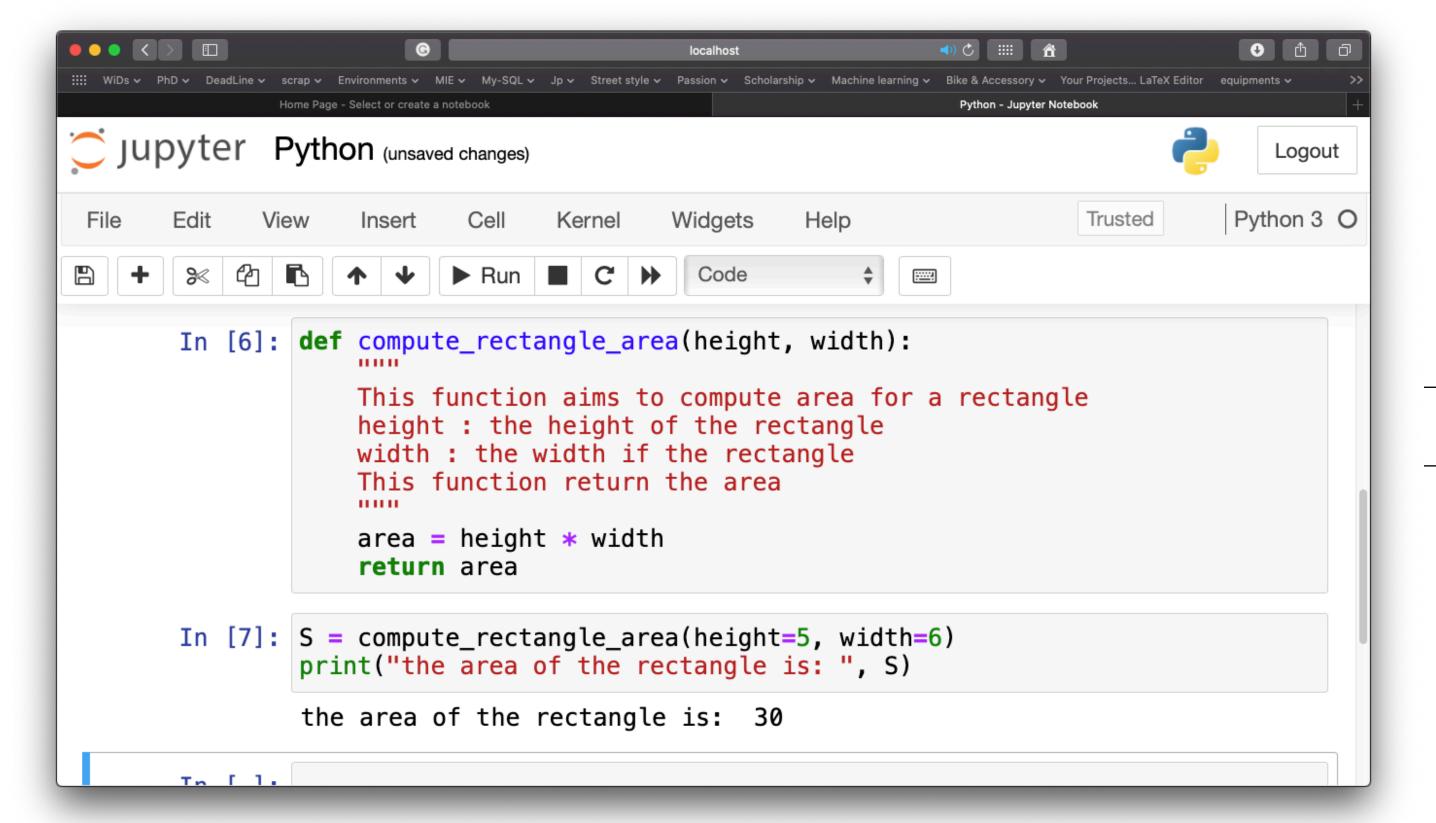
NOTES FOR FUNCTION CONSTRUCTION

- Define function name
 - → Lowercase with underscores and begin with a verb
- Indentation
 - → Use 4 spaces or 1 tab for indentation
- Determine function parameters
 - → Input data help the function done
- Do docstring
 - **Explain** and describe the function
- Output of the function

EXAMPLE

• Area of this rectangle?

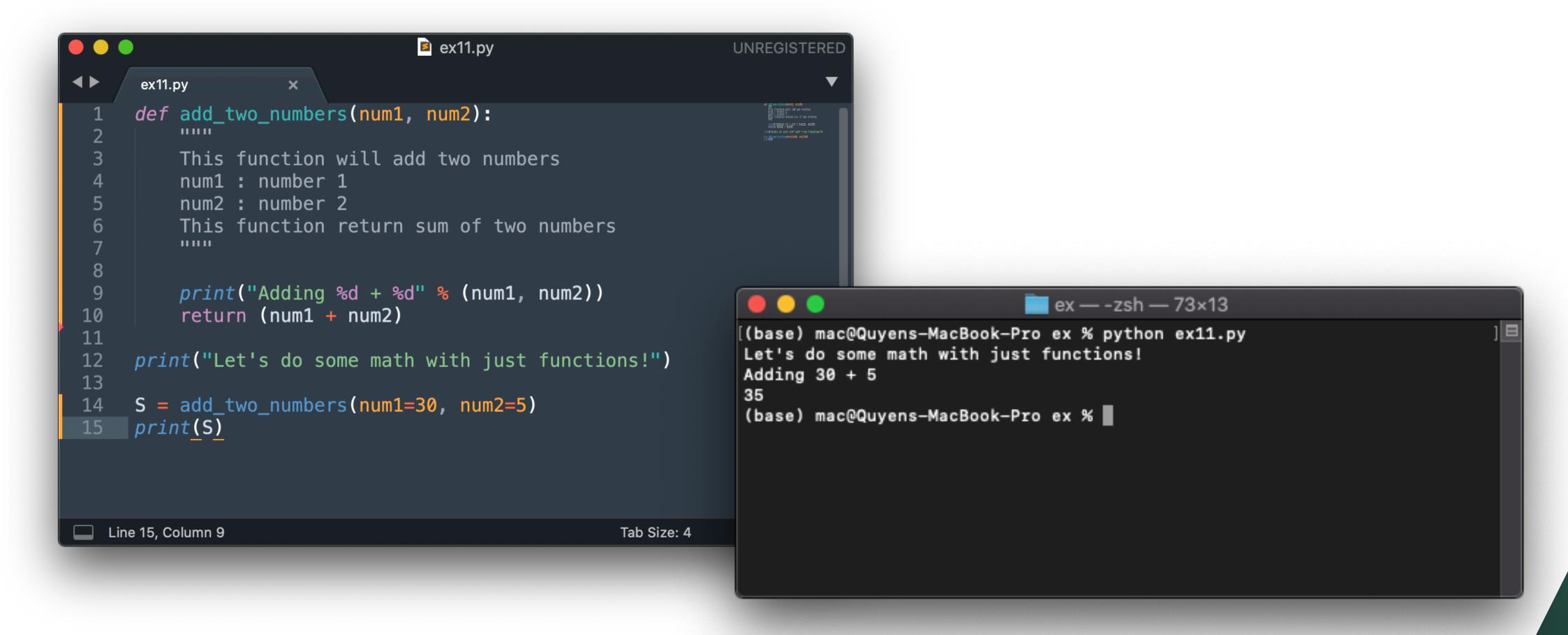
$$\rightarrow S = L \times w$$



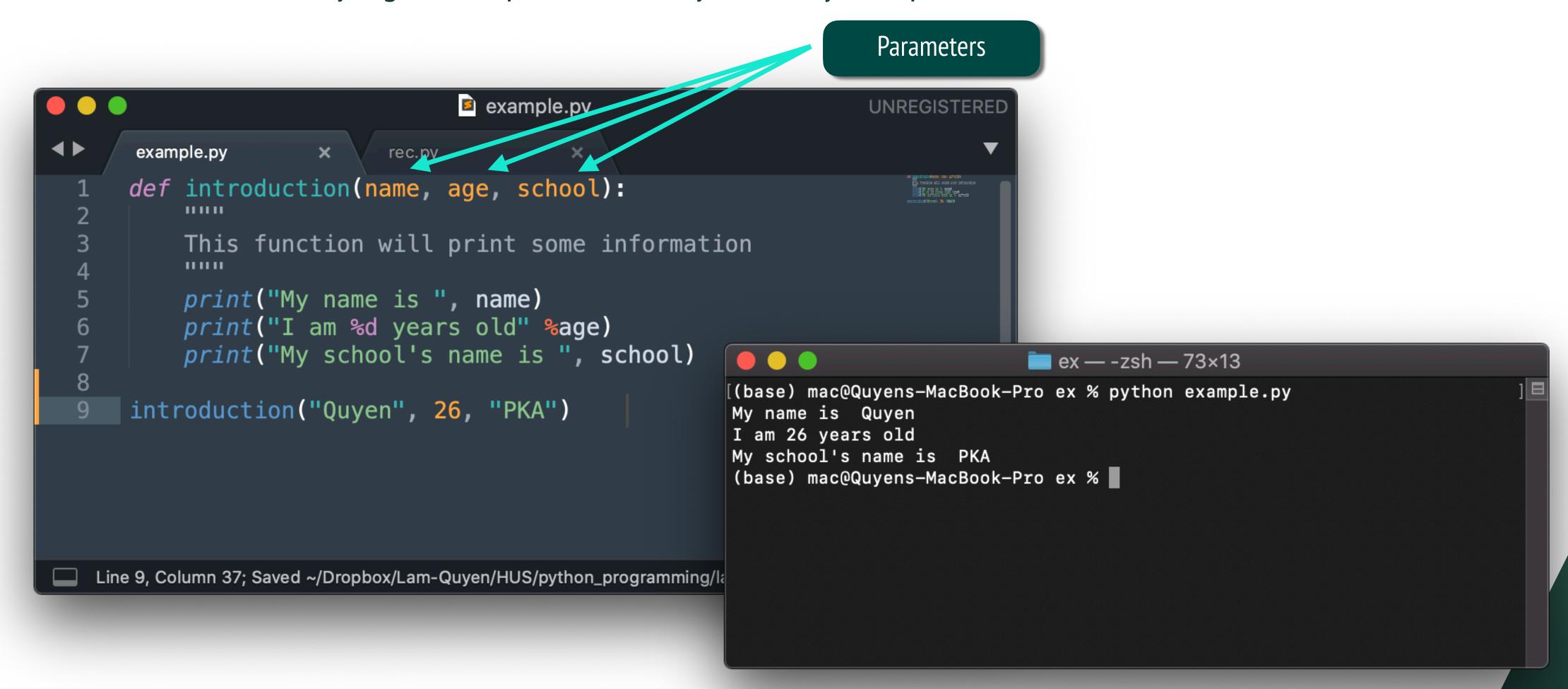
Name	compute_rectangle_area
Parameters	height, width
Output	area

FUNCTION CREAT/CALL

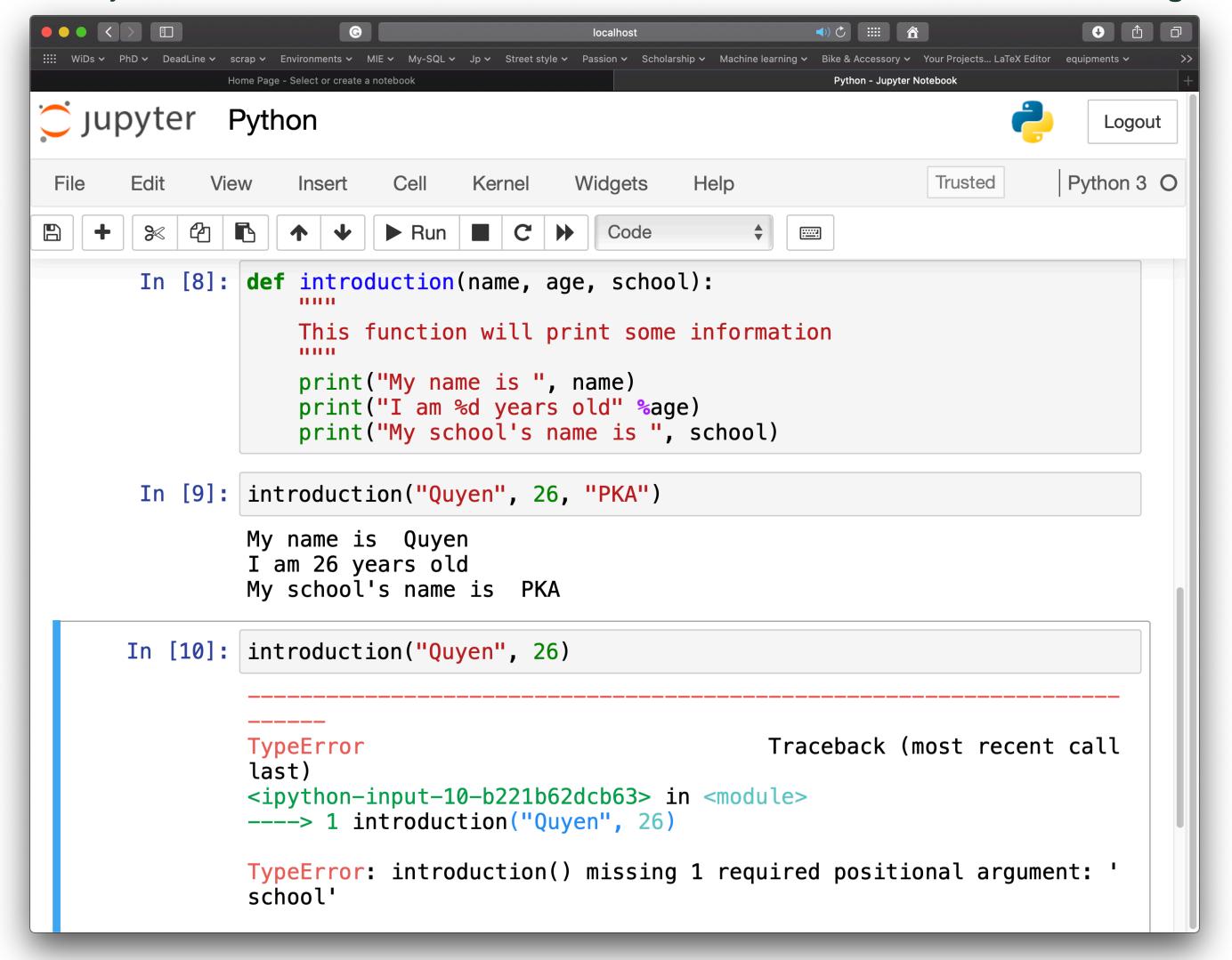
- You can create a function by using the word def in Python
- To call a function, use the function name followed by parenthesis



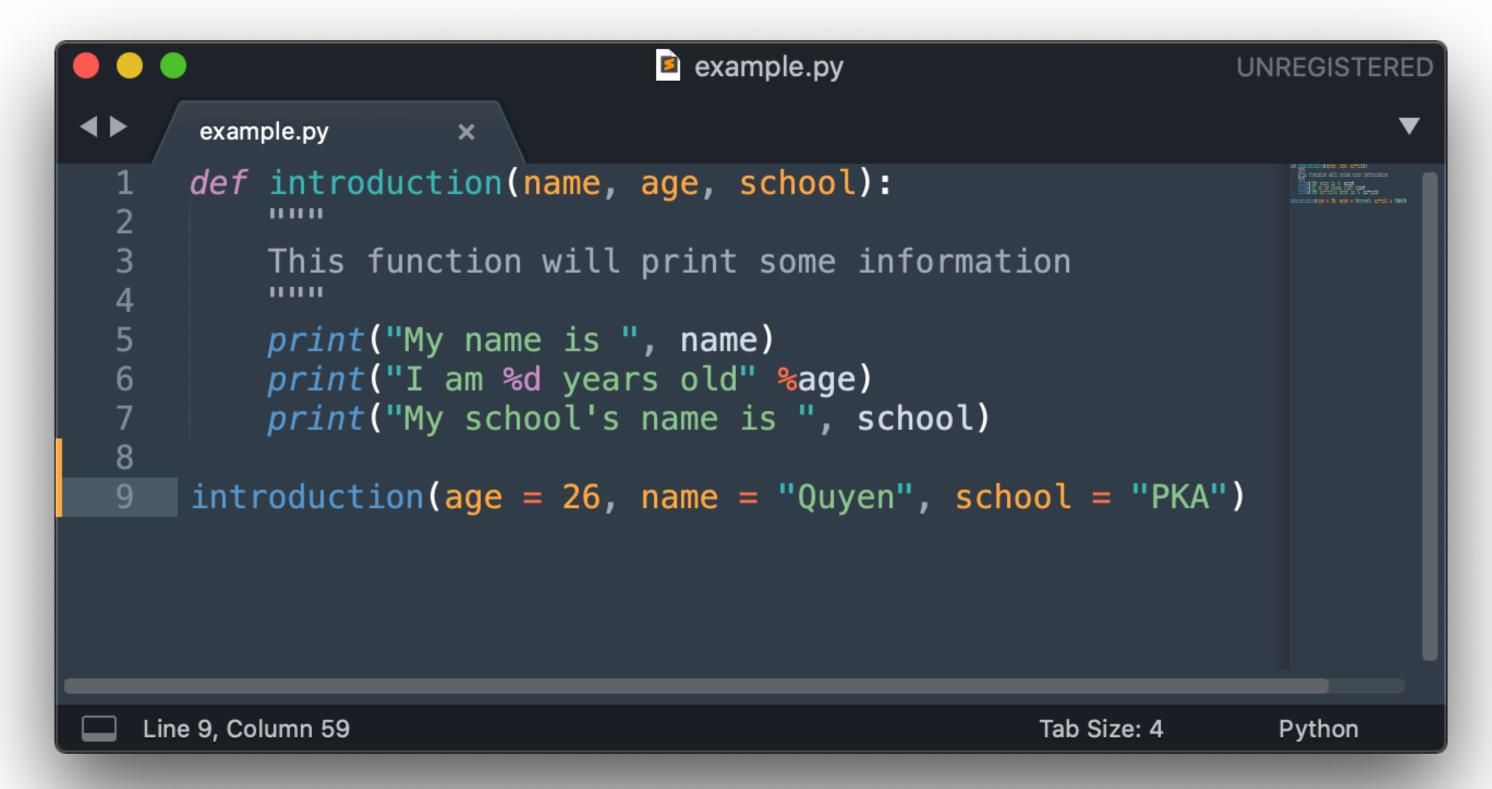
- Information that are passed into a function
- You can add as many arguments/parameters as you want, just separate them with a comma



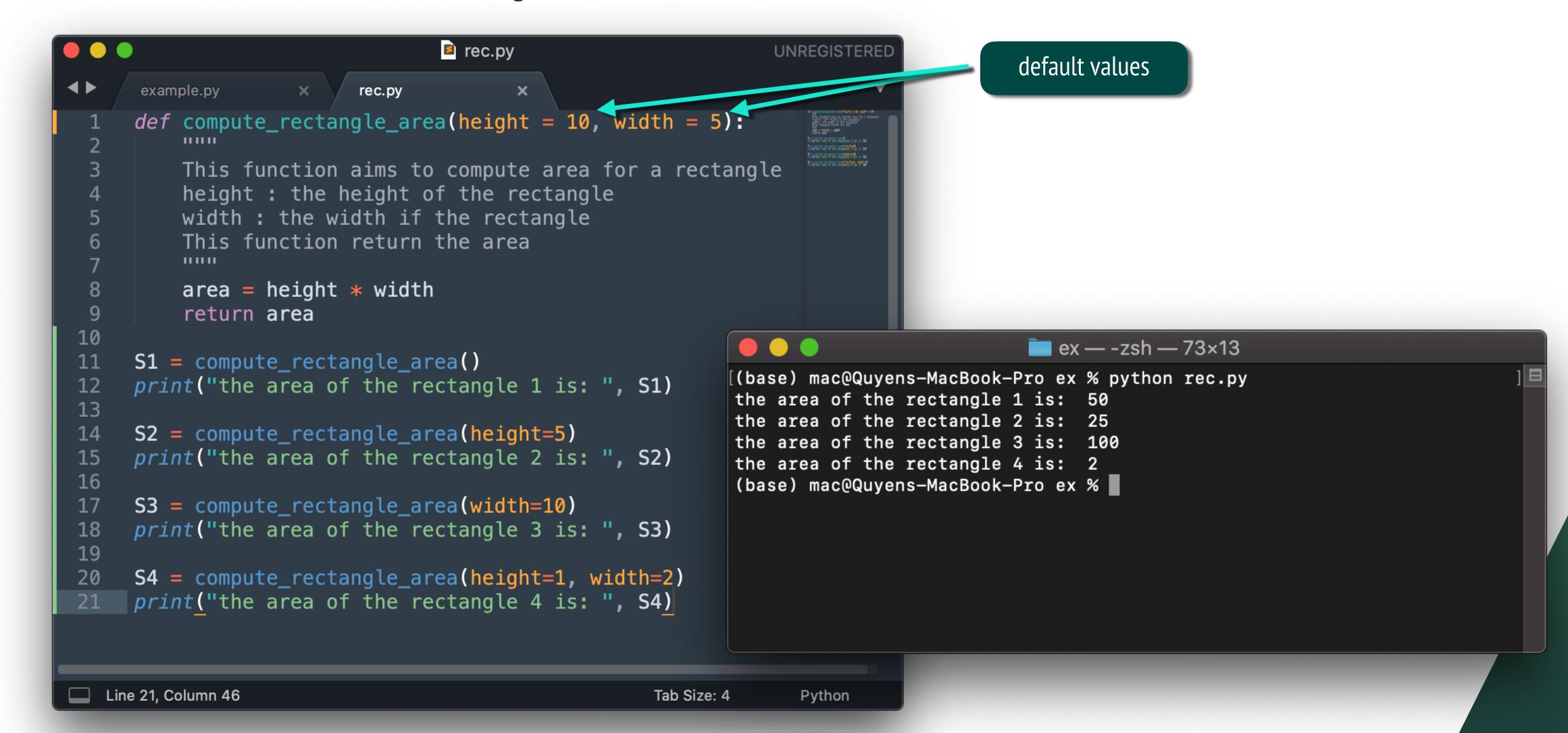
• By default, a function must be called with the correct number of arguments.



- You can also send arguments with the key = value syntax
- This way the order of the arguments does not matter



If we call the function without argument, it will use the default values



ASSIGNMENT