# Learn Python the Hard way

## Function Checklist

1. Did you start your function definition with *def*?
2. Does your function name have only characters and \_ (underscore characters?
3. Did you put on open parenthesis ( right after the function name?
4. Did you put your arguments after the parenthesis ( separated by commas?
5. Did you make each argument unique (meaning no duplicated names).
6. Did you put a close parenthesis and a colon) : after the arguments?
7. Did you indent all lines of code you want in the function 4 spaces? No more, no less.
8. Did you “end” your function by going back to writing with no indent (*dedenting* we call it)?
9. And when you run (aka “use” or ”call”) a function, check these things:
   1. Did you call /use/run this function by typing its name?
   2. Did you put ( character after the name to run it?
   3. Did you put the values you want into the parenthesis separated by commas?
   4. Did you end the function call with a) character?

## Symbols and Words encountered so far (Exercise 22)

* **print** – types out on the screen
* **#** (pound or octothorpe or hash sign) - will allow you to write comments in your code
* **\_** underscore – useful when creating long variable names
* **“” double quotes –** creates a string
* **‘’ single quotes –** creates a string
* **%s, %d, %r –** format characters, they allow putting in variables in its place
* **% percent** followed by the variable allows using variables in place of the format character
* **\ -** escape character. Whatever is after this is read as programmatic item, often used with \n for new line in text strings or with \t for a tab.
* **“””** triple quotes start and end a long comment **“””**
* **raw\_input()** prompts the user to enter something. It could have an explanation in the parethesis.

## Numbers and Math

* **+** plus
* **-** minus
* **/** slash (division)
* \* asterisk (multiplies)
* % percent (divides and return a reminder)
* < less than
* > greater than
* <= less than equal
* >=greater than equal
* Floating point – displays numbers after the period instead of whole numbers