Python Coding Conventions

References:

- PEP 8 -- Style Guide for Python Code | Python.org (official from Python.org, co-written by Guido van Rossum creator of Python)
- How to Write Beautiful Python Code With PEP 8 Real Python (easy to follow and quality Python resource page)
- Python Variable Names (w3schools.com) (from w3school, short and concise, quality resource)

These coding conventions are the best practice, style guide for Python programming project, some of it are:

- · Naming and declaration rules for variables and functions.
- Rules for the use of white space, indentation, and comments.
- · Programming practices and principles

By following the coding convention, is to enhance and ensure the consistency, readability for Python project:

- · Improves code readability
- Make code maintenance easier

Hint:

- For VS Code User, you might want to checkout:
 - Beautify Visual Studio Marketplace
 - Prettier Code formatter Visual Studio Marketplace
- For general python user:
 - autopep8 · PyPI

Variable Names

Use underscore_case for identifier names (variables and functions).

Long list or iterators with many items

Preferably 3 items per row:

Import external libraries

Each library should be in a line, alphabetically order:

```
# Correct:
import os
import sys

# Wrong:
import sys, os

# Correct:
from subprocess import Popen, PIPE
```

Whitespace in Expressions and Statements

Avoid extraneous whitespace in the following situations:

```
# Correct:
spam(ham[1], {eggs: 2})

# Wrong:
spam( ham[ 1 ], { eggs: 2 } )

# Correct:
foo = (0,)

# Wrong:
bar = (0, )

# Correct:
x = 1
y = 2
long_variable = 3

# Wrong:
x = 1
y = 2
long_variable = 3
```

Comment

Documetion Strings (DocString) - for function, class or file documentation

```
"""Return a foobang

Optional plotz says to frobnicate the bizbaz first.
"""
```

Inline comment

```
x = x + 1 # Increment x
```