Naming rules for variables

1. It should be clear from the name of a variable what data it stores;
2. The name of a variable should not consist of a single letter;
3. The name of a variable must be written in small letters, with underscores between the words, if necessarry;
4. The variable name should not be the same as the name of commands, such as “print,” “if,” etc...

Wrong X

```
a = 'John'
AGE = 11
DateBirth = 2010
```

Correct V

```
name = 'John'
age = 11
date_birth = 2010
```

When you need to put spaces

1. Spaces should be placed before and after the following operators: =, ==, <, >, !=, <>, <=, >=, in, not in, is, is not, and, or, not;
2. Spaces must be placed after commas;
3. There is no need to put spaces between equals in function arguments.

Wrong X

```
def eating(fruit):
    print('Om-Nom-nom'+fruit)

fruit= 'plum'
fruits=['apple','orange','banana','pineapple']
if fruitinfruits:
    eating(fruit = fruit)
```

Correct V

```
def eating(fruit):
    print('Om-Nom-nom' + fruit)

fruit = 'plum'
fruits = ['apple', 'orange', 'banana', 'pineapple']
if fruit in fruits:
    eating(fruit=fruit)
```

Indent

1. For a command to be executed inside of for, if, def, и etc., you must add an indent, before that command, using the Tab key:

```
if 5 > 3:
    print('more')
```

Wrong X

Correct V

Empty lines

1. Separate functions with two empty lines;
2. Separate classes with two empty lines;
3. You must add two empty lines afte the libraries are connected;
4. Methods (functions) inside the class must be separated by one empty line;
5. Use an empty line to separate code into logical parts.

Wrong X

```
import random
class MyClass:
    def __init__(self):
        self.name = 'My name'

    def say_hello(self):
        return 'hello world'

def my_func():
    i = random.randint(1, 100)
    return i
myclass = MyClass()
```

Correct V

```
import random


class MyClass:

    def __init__(self):
        self.name = 'My name'

    def say_hello(self):
        return 'hello world'


def my_func():
    i = random.randint(1, 100)
    return i


myclass = MyClass()
```