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PEP-8 (python)

* What is PEP?

The PEP is an abbreviation form of python enterprise proposal. PEP 8 is a document that provides various guidelines to write the readable in python.

* Why pep 8 is important?

PEP 8 enhances the readability of the python code,

"code is much more often than it is written"

At this point, we must have an idea of why we wrote the particular line in the code. The code should reflect the meaning of each line.

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* Naming convention.

When we write the code, we need to assign name to many things such as variables, functions, classes, package, and a lot more things. Select a proper name will save time and energy.

The naming convention in python is slightly messy, but there are certain conventions that we can follow.

Ex:

Single lowercase letter

`a = 10`

Single uppercase letter

`A = 10`

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lowercase

var = 10

lowercase - with underscores

number_of_apples = 5

uppercase

VAR = 6

Upper - case - with - underscores

.NUM_OF_CARS = 20.

capitalized words

NumberOfBooks = 100

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* Name style

Type

convention

ex:

Function

LC, all
separates
(_)

myfxn,
my_fxn.

Variable

LC, same

a, var,
variable_name

class

capitalized;
(_)

MyClass, Form

method

LC, (-)

class_method

constant

short UC,
(_)

MYCONSTANT,
_CONSTANT

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Module CC, C++

Module -

name.py

Package CC, C++

Package

* Code layout.

Defines how much code is readable.

* Indentation

used to define the code block in python. Important part of the python language and it determines the level of lines of code.

Ex:

```
x = 5
```

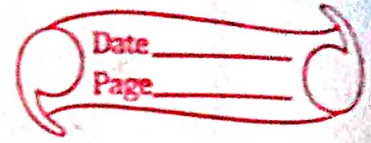
```
if x == 5
```

```
    print('x is larger than 5')
```


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The indented print statement will get executed if the condition of if statement is true. Indentation defines the code block / tells us what statements execute when a function is called on condition trigger.

* USE DOCTRING

Python provides 2 types of document string or dostring - single / multi line. we use triple quotes to define a single line or multiline quotes.

Ex:

```
def add(a,b):
```

```
    """ This is dostring """
```

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* Should a line break before or after
- a binary operator?

Ex:

~~# wrong~~

```
marks = C marks +  
        math +  
        (science - bio) +  
        physics.
```

Coherent

```
marks = C English  
        + math  
        + (Sci - bio)  
        + physics
```

* Importing modules.

correct way

```
import pygame } separate lines  
import os
```

~~# wrong way~~ } import sys, os