PRACTICAL-7

Implementing Coding Practices in Python Using PEP8

What is PEP 8?

Pep 8 is a document that provides guidelines and best practices on how to write Python code. It was written in 2001 by Guido van Rossum, Barry Warsaw and Nick Coghlan. The primary focus of PEP 8 is to improve the readability and consistency of Python code. PEP stands for Python Enchantment Proposal and there are several of them. A PEP is a document that describes new features proposed for python and document aspects of Python, like design and style for the community.

Label 1: Regular_variables

- Variable names should be lowercase, where necessary separating words by underscores

```
a_color_name = 'Blue'
```

Label 2: CONSTANTS

- In python, all variables can be modified
- Therefore, real constants don't exist
- But to indicate that a variable should be treated as if it were a constant, names should be uppercase, where necessary separating words by underscores

```
COLORS_NAMES = ['Blue','Red','Green','Yellow']
```

Label 3: ClassNames

- Class names should capitalize the first letter of each word

pep8.py - C:/Users/Abhishek Patil/Documents/python/pep8.py (3.9.1)

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```
class ColorName:

    def __init__(self, name):
        self.name = name

    def __str__(self):
        return self.name

Blue = ColorName(name = 'Blue')
print(Blue)
```

Output:

```
========== RESTART: C:/Users/Abhishek Patil/Documents/python/pep8.py ==========
Blue
>>>
```

Label 4: conflicting_names_

- If a name is already taken, suffix an underscore

```
in_ = 'Color'
```

Label 5:

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```python
table = int(input("Enter the table you want"))
for i in range(1,11):
 print(str(table) + " x " + str(i)+ " = " + str(table*i))
```

Output:

```
========== RESTART: C:/Users/Abhishek Patil/Documents/python/pep8.py ==========
Enter the table you want8
8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72
8 x 10 = 80
>>>
```