

# PRACTICAL 7

**Raghavendra Rao 69 FYIT**

## **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 Enhancement 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.

### **Code 1: regular\_variables**

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

```
[ ] a_state_name="Maharashtra"
```

### **Code 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

```
[ ] states_names=["Gujrat","Karnataka","Maharashtra"]
```

### Code 3: function\_names()

- Names of functions and class methods should be lowercase, where necessary separating words by underscores

```
import random
a_state_name="Maharashtra"
states_names=["Gujrat","Karnataka","Maharashtra"]
def random_state_name():
    return random.choice(states_names)

print(random_state_name())
```

Gujrat

### Code 4: ClassNames

- Class names should capitalize the first letter of each word

```
class Statename():

    def __init__(self,name):
        self.name=name
    def __str__(self):
        return self.name
Maharashtra= Statename(name='Maharashtra')
print(Maharashtra)
```

Maharashtra

---

### Code 5: FactoryFunctionNames()

- Factory functions return objects
- Therefore, to users of your code, factory functions act like class definitions
- To reflect this, factory-function names should also capitalize the first letter of each word

```
def Gujrat():  
    return Statename(name="Gujrat")  
  
Gujrat= Gujrat()  
print(Gujrat)
```

---

Gujrat

### Code 6: `_non_public_properties`

- In Python, properties can be accessed from anywhere
- Therefore, private class properties don't exist
- But to indicate that a property should be treated as if it were private, names should be prefixed with an underscore

```
class Karnataka(Statename):  
    def __init__(self):  
        Statename.__init__(self,name="Karnataka")  
        self._district=30  
    @property  
    def district(self):  
        return self._district  
  
karnataka = Karnataka()  
print(karnataka)
```

---

Karnataka

### Code 7: `conflicting_names_`

- If a name is already taken, suffix an underscore

```
▶ in_="Maharashtra"
```