Coding Standards (Python)

1 Naming convention

• variable name:

Variable names should be in camelCase.

Examples:

myName, myWordFile, isTeacher

• Constant Name:

In Python, constants are usually declared and assigned in a module. Inside the module, constants are written in all capital letters and underscores separating the words.

Examples:

PI, GRAVITY, MAX₋VALUE

• Method Name:

Method name should be in camelCase.

Example:

```
def my_function():
    print('Hello world!')
```

• Parameter Name:

Parameter names should be in camelCase.

Example:

```
\begin{array}{l} {\rm function\ add(numX,\ numY):} \\ {\rm sum} = {\rm numX} + {\rm numY} \end{array}
```

• Class Name:

Class names should be in camelCase.

Example:

```
class myName:

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

• Interface Name:

Interface names should be in camelCase.

Example:

```
import zope.interface class myInterface(zope.interface.Interface):  \begin{array}{c} x = zope.interface.Attribute("foo") \\ def method1(self, x): \\ pass \\ def method2(self): \\ pass \\ \hline @zope.interface.implementer(MyInterface) \\ class MyClass: \\ def method1(self, x): \\ return x**2 \\ def method2(self): \\ return "foo" \\ \end{array}
```

• Exception Name:

In python, The critical operation which can raise an exception is placed inside the try clause. The code that handles the exceptions is written in the except clause. Here, import module sys to get the type of exception.

Example:

2 Comments:

Comments start with a # and Python will ignore them.

Examples:

Single line comment:

#This is a comment. print('Hello, World!')

Multi-line comment:

Python does not really have a syntax for multi line comments. To add a multi-line comment, insert a # for each line.

#This is a comment #written in #more than just one line. print('Hello, World!')

3 Indentation:

The number of tab must be one.

Example:

def myPet:

print('This is my pet cat!')

4 Variable Ordering:

Variables of classes must be in the order: private, protected and public.

5 Method Ordering:

Methods of classes must be in the order: constructor, private, protected and public.