Table Python Coding Standard

Create by Dongning Li

Create by Dongnin	I ^T
Purpose	To guide the development of python programs
Program	Begin all programs with a descriptive header.
Headers	
Header Format	
	Create by Dongning Li (Donnie)
	Course Name: SWE 5001 Software Engineering 1 Assignment Number: Assignment 1
	Create Date: Sep/23/2016
Listing Contents	Provide a summary of the listing contents.
Contents	177
Example	
Liample	Listing Contents: Reuse instructions
	Modification instructions
	Compilation instructions
	Import Function Define:
	getMean()
	getMedian() Main()
	Call main function to run whole program:
	Main()
	MI
Reuse	Describe how the program is used. Provide the declaration
Instructions	format, parameter values and types, and parameter limits.
	Provide warnings of illegal values, overflow conditions, or other
	conditions that could potentially result in improper operation.
Reuse Example	V//
neuse Example	
	getMax(aList) Purpose: get the max number of the arraylist
	Limitation: each element in aList should be number and the
	length of aList should NOT 0. Return: max number if each elements in aList is number and the
	length of aList is NOT 0, else return ERROR.
Identifiers	Use descriptive names for all variables, function names, constants,
	and other identifiers.
	Avoid abbreviations or single-letter variables like I/L/O.
	Name variables camelCase.
	Function name should start with a verb.
Identifier	studentNum = 0 #This is GOOD
	x4 = 0 #These is BAD
Example	stunumber = 0 #These is BAD
Comments	Document the code so that the reader can understand its
	operation.

	Comments should explain both the purpose and behavior of the code. Comment variable declarations to indicate their purpose.				
Good Comment	if (recordCount > limit) #have all the records been processed?				
Bad Comment	<pre>if (recordCount > limit) #check if recordCount greater than</pre>				

Table Python Code Review Checklist

Create by Dongning Li
PROGRAM NAME AND #: SWE1ASGA1

Purpose	To guide you in conducting an effective code review.			
General	- As you complete each review step, check that item in		<u> </u>	
General	the box to the right.			
	- Complete the checklist for one program unit before			
	you start to review the next.			
Complete	Verify that the code covers all the design.			
Import	- Check imports are at the top of the file.			
ППРОТ	- Check imports are on separate lines.			
	- Verify that imports are complete.			
Initialization	Check variable and parameter initialization:			
minimization	- at program initiation			
	- at start of while loop			
	- at function/procedure entry			
Calls	Check function call formats:			
	- parameters			
	- use of '&'			
Names	Check name spelling and use:		Ì	
	- is it consistent?			
	- is it within declared scope?			
	- do all variables and functions named in camelCase?			
	- do function name starts with a verb?			
Loop	- Check variable used for while loop counting initialize			
	- Check "while loop" adds step each loop manually while			
	"for loop" NOT			
String	- Don't use the fact that empty sequences. Use if			
	sequence/ if not sequence.			
Boolean	Don't compare Boolean values to True or False using ==			
Comparison				
Output	- The 4-space rule is optional for continuation lines.			
	- use ["] instead of [""] for printing plain text.			
Return	No value is returned should explicitly state this as			
	'return None'			
Logic	Verify the proper use of ==, =, , and so on.			
Operators				
Line by Line	Check every LOC for			
Check	- instruction syntax and			
	- proper indentation.			
	- NO semicolon exists			

Standards	Ensure that the code conforms to the coding standards.		
File Open	Verify that all files are		
and Close	- properly declared,		
	- opened		
	- read/ written.		