It took Fyit - 139 Assignment - 2 Joy Moth what is python PEP 8 ? PEPS, sometimes spelled PEPS or PEP-8, is a document the fravides quidelines and practices on how to write python code ... A PEP is a document that describes new feature proposed for python and documents aspects of bython, like design and style, for the community Introduction This document gives cooling convections for tru bython code sombrising the standard library in the made bython distribution. please see the companion informs and PEP describing style gendeline for fue C code in the C simplement over time as additional convent are identified and past convention are rendered obsolete by changes i the language itself May Marry projects have their own coding sty Conflicts, show such project specif quides take precedence that project

Code lay-out Industrialion Use 4 spaces per indistation livel Continuation should align wrapped elements either vertically using python's implicit line Journing inside parentuses, prachet and braces, on using a language endent when using a Manging Mident the foollowing should be considered there should be no gramments of the first line and further indistation should be used to clearly distinguish itself as a Continuation line: Correct: # Aligned with opening delimiter foo = long function and (var one, vor two, var twee, vor four) Add 4 spaces (an extra livel of industration) to distinguish deflong function name (

vor our, var two, var twee,

vor four): print (voi one)

#

Chisenale D

The closing brace bracket forenthesis on multiple constructs may either line up under the first no whitespace character of the last line of list, as in my list = [

1, 2, 3,

4, 3, 6,

result = some function that takes arguments (

'a', b', 'c', 'f',

'd', 'e', 'f',

Tabs and spaces?

spaces are the freferred industriess
method

Tabs should be used solely to remain
consistent with rode that is already
industed with tabs

bython disallows mixing tabs and
spaces for industation

Maximum line length.

Limit all lines to a maximum of

78 character

for flowing long blocks of text with

fewer structural restrictions

closstring or comments), hu line

should be limited to 72 charact limiting the required editor merclow width makes it possible to have several files open side by side, and works well when using prode review tools that breston in adjacen column Blank lines Surround top-lines level function and class definitions with two blandenes. Mothod definitions inside a class are surrounced by a single blank line line. Extra blank lines may be used sparingly) to seperate groups of related functions. Blank likes may be omitted between a b und of rotated one-liners (e.g. a set of dumny implementations.

source file Encoding Code in the core fofthan distribute always use UTF-8, and should no have an encoding declaration. In the standard hibrary, non-u encodings should be used only for test purposes. Use of - non-

OSCII characters as data avoid noisy Unicode characters like 2 algo and order marks of identifiers in bython standard library Mart use Astell-only words wherever feasible (in many Cases, abbreviations and technical terms are used which aren't English.) * Imports should usually be on seperat Imports + Correct import os Imports are always but at the top of the file, Just after any module comment and clocktrings and before module globals and constraints. Imports should be grouped in tu following groups

i. Standard library imports

ii. Related third party imports

iii. local applications [library speci)

imports.

Module level desder Names Module level "denders' such às all_, -author_, -version_, etc. strended be placed after the module cloestring but before any import statements expe except from that buture - imports must appear en the module before any other coche except doestrings: """ This is the example module This module does stuffs. from future import barry as FLU

- old all = ('a', b', c') - Version : = 10.1 _ author = 'Cardinal Biggles! import os import sys.

chassiste ()

String Quotes

In fullion, single-quoted strings and double quoted strings are true same This Pt P does not make a recommendation for this Pick a rule and slick to it when a string contains single or double quote I character, however, use the other one to avoid backslasher in the String. It impraves readability

when to Use trailing Commas.
Trailing commas are usually of tional, except they are mandatory when making a triple of one element for clarily, it is recommended to surround the later in farentheses.

Correct: FILES = ('setup.cfg',)

Comments that contradict the cade are worse than no comments Always make a priority of keeping the comments update the cocle changes!

Comments should be complete sentences. The first word should be capitalized unless it is as identifier that

begins with a lower case latter hever after the case of identifiers!) Block comments generally consist of one or more faragraphs build out of complete sentences, with each sentences ending in a period you should use two spaces fal after a sentence - ending feriod in multi-sentince comments, except after the final sentence python codes from non-English speaking countries; please write your comments in English, unle you are 120% sure that the cool will never be read by people who don't speak your language Block Comments. It generally apply to some or all code that follows them, and an induited to the same level as that code Each line of a block comm starts with a # and a single spar Naming Conventions The having conventions of Pho python's library are a bit ofmess, so we'll never get the completely consistent - nevertheless, here are currently recomended naming

standards. New modules and backages should be written to these standards, but where an existing library has a different style, interna Overrichting principle Names that are visible to fue uses as public parts of the API should follow conventions that reflect usage rather then implementate styles. It helps to be able to recognize what naming style is being used, independently from what they are used for -Descriptive: Naming Styles The following naming styles are commonly distinguised: b (single lowercase letter) B (Single uppercase letter). lowercase lower case with underscores

UPPERCASE UPPER_ CASE_ WITH_UNDERCHSE Capitalized Words mixed Case Capitalized words with underscores. the Cap words convention The naming convention for func-may be used in cases where the interface is documented and prima as a callable founction and Variable name function names should be lowercase, with words seperated by readability. function and Method Arguments.

Always use self for the first argument
do instance method.

Always use the for the first argument
to class methods. Constants Constants are usually defined on a module level and written in all capital letters with underscore separations words Examples include MAX-OVERFLOW and TOTAL Designing for Inheritance Mways decide whitter a class's method and instance variable Collectively; " attributes") should be public or nonbublic. If in doubt, choose non bubl it's easier to make it public attrit later than to make a puffic attribute non-Bublic. Bublic and Internal Interfaces. dry backwards compatiblities quarantees apply only to bublis interfaces. Accordingly, it is in that users be able to clarly distin between bublic and interpol interfe

Documented interfaces are condidered public, circless the documentation explic declares turn to be pravisional or internal interfaces exampt from the usual backwords compatibility quarantees. All undocumented info interfaces should be assume to be internal. programming Recommendations; Colle should be written in a Way that desurt disadvantage other implementations of fythan (PyPy, Jython, Iron Pythan, Cython, Pysco, and such). · Always use a dif statement instead of an assignment statement that binds a lambda expression directly to an identifier: def f(x): return 2*x wrong f = lambda x: 2*x

of bure except clauser to two cases: i) if the exception handler will be printed out or logging the traceback; at least the user will be dware that an error has occured. ii) if the coclemeds to do some Clear up work, but then lets the exception propagate upwards with raise finall can be a betterway to handle this errors, prefer the explicit exception propogate upwards hierarchy introduced in Python 3.3 over sutraspection of erron values. · Additionally, for all try except clauses, limit the try clauses to the absolute minimum amount of code necessary. Again, this avoids except ky Error:
except ky Error:
nettom ky not found (ky)
else: Correct:

elacateate.

return trandle_value (value)

- · Don't wite string literals that evely on significant whitespace is such trailing whitespace is visually indistinguishable and some editors (or more recently, reindent py) will trum them
- · Don't Compare boolean values to True of false using ==:

+ Correct

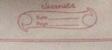
if greeting .

Werong:

if greeting == Town.

Worse # wrong:

if greating is True:



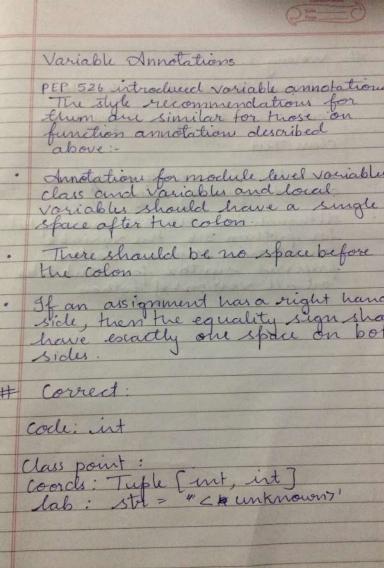
function Annotations

With the acceptance of PEP 484, the style rules for function annotations have changed.

- · function annotations should use PEP 484 syntax
- The esperimentation with annotation styles that was recommended previously in this PEP is no longer encouraged
- However, outside the stollis, experiments within the rules of PEP 484 are now encouraged for example, marking up a large third farty library or application with PEP 484 style type annotations, reviewing how early i was to add those annotations, and observing their presence in cereases code understandability.

The Python standard library should be conservative in adopting such anototions, but their use is allowed for shew code and for tig refacto

for code that wants to makes a different use of function annotation it is recommended to put or comment of the form: type: egnore near the top of the files; this tells type checkers to ignore all like linters, type checkers are optional separate tools bython subspreters by default should not usue any n'essages due to type checking and should not alter their bolianiour based on annotation users who don't want to use type checkers are free to ignore their However, it is expected that users of third purty library packages may want to sur type checker over there backages. For this purpose PEP484 Trecommends fre that are read by the type checker in preference of the



Classical Control Cont

Worong:

Code: int # No space after Colon

cocle: int # space before colon.

Class Test:

eresult: int=0 # No spaces arount equality sign.

Although the PEP 526 is accepted for fython 3.6, the variable annotation syntax is the freserred syntax for stub files on all versions of fython