PRACTICAL-7

	Aditya Pawar Page No. Date: Vapo
	PEP8 Style Gruide for python code
0	Introduction— This document gives coding conventions for the python code comprising the standard Library in the main python distribution the companion informational PEP describing style quidelines for the C code in the Cimplementation of python
	PEP8 and PEP257 (Dostring docum: conventions) were adapted from Guido's original python Style guide essay, with some additions from Barry's Style guide.
	This style guide wolves over time as additional conventions are identified and past conventions are rendered obsolute by changes in the language itself.
	many projects have their own coding style guide-lines. In this event of any conflicts, such project-specific quides take preeding for that project.
•	A Jooush consisting is the hobgobien of withe
	one of guido's key mights is that code is read much more ofthe than it is written. The guidelink provided hard are introded to improve the readability of code & make it consistent across the wide

	Aditya Panasi Page No. EVIT-107 Date: Volume
-	# Add a comment, which will
	provide some distinction in
	editors
	H supporting syntax
	highlighting
	if (this is one thing and
	that is another thing):
	A since both conditions are
	true, we can probrigate
	do something ()
	1) Add some entre identation on
	the conditional continuation
	line.
	if (this is one thing
	and
	that is another thing).
	do something ()
421	
	multine constructs may either line up under the first non-whitespace Character of the 190 dine of list, as in
	my list = L
	1, 2, 3
	4, 5, 6,
	124.11 -
	Hout =
	Some function that takes - arguments (
) , (, (,)
A CONTRACTOR	

because the code in question predates the introduction of the guideline and there is no other reason to be modylying that code. when the code needs to remain compatible with older versions of python that don't support the feature recommended by the style guide.
apport the feature 400 mended by the style
Code lay out
une a spaces per interindentation well.
elements either vertically wing python's implied line joining inside parentheses, brackers and bracks, or using a hanging indent when using a hanging indent when using a hanging indent the following should be considered; there should be no arguments on the jirst line and justher indentation should be clearly distinguish itself as a continuation time.
digned with opening delimiter for = long - junction name (var. one,

	Adinya Paway Programs FYIT-107 Date VO
line	break byore or after a birrary operator
For	decades the recommended style was to
	ic after binary operators. But this can hu
	ability in two ways: the operation tend +
	scattered across different columns on the
)	in, and each operator is moved away
	n it, operand and onto the privious line
0	I the eye has to do extra work to tell
	in Hems are added and which are subtr
# W	rong:
4	operators 51+ four away from
th	ur operands
3n	come = (gross-wages +
	taxable -interest +
	(dividends -
qu	alified - dividends) -
The state of	ira-deduction-
	Student_loan-Inturest
To	solve this readability problem, mathematic
and	their publishers follow the opposite conven
Don	ala khuth Apparis the traditional sule in
nis	computers and type suring series: "Althe
John	rulas within a paragraph always break
afr	of binary operations and relations, displayed
Jorn	rular always break before binary operation
folic	owing the tradition from mathematics were
Usu	its in more readable code!

	Aditya rawah Page No. FYIT_107 Date:
	+711_10+
# correct;	
# easy to match openat	on with operands
?ncome = (gross_wages	
+ taxable _ ?r	HUZUST
+ (dividends -	///
quaryred dividinds)	
- ira_deduct	ron
<u> </u>	
Student I can - Interest	
To puthim code it is	numicióhla la lacale
In python code, it is before or after a binary	and a day of land
the conversation is	Completed to the allege
the conversation is or new code knuth's style	D Magante d
	3 3 3 2 3 7 6 4
Blank lines	and the later of t
	M. B. B. W. D. W. C. B.
surround top-level for	nction and class dy
with two blank linus.	V
method delinitions shaid	11 0 11001
method aginitrons insid	a class and subjour
	ACT OF THE PARTY O
Extra blank lines may	be wild (spaningly)
separate groups of relat	ed functions blank 1
may be omitted between	a bunch of related
seperate groups of relation may be omitted between one-liners (e.g. a set	of dummy impumint
use blank lines in Juni indicate logical sections.	sportingly, to

Aditya Pawal Page No.: FYT 7- 107 Date: Date:
Imports.
Imports should usually be on separate lines:
conct: ?mport os ?mport sys # wrong: ?mport sys, os This olcay to say this though. # concet: from subprocess ?mport popen,
Imports are always put at the top of the file, fust after any module comments and docstrings, and before module globals and constants. Imports should be grouped in the following
1. Standard 1?brany imports. 2. Related third party imports. 3. local application / library specific imports. A blank line is must between each group of imports.

module level Dunder Names module level Dunder Names module level "dunders" (Fe names with two leading and two trailing understroses) such as all author, versionetc. Should be plaud to after the module doestring but begore any import statements except from future imports. Python mandates that juture-imports must appear in the module begore any other code except doestrings: """This is the example module: This module is stuff fromfuture import barry=as_ Fluft all = ['a', 'b', 'i'] version _= 'o.1' author = 'cardinal biggus' import sys.	-91	Aditya Pawar Page No.: PAJ 7 _ 107 Date: YOUR
clading and two trailing undersitoes) such as all—, author—, vousion— etc. Should be placed to after the module doestring but before any import statements except from future imports must appear in the module before any other code except doestrings: """ This is the example module. This module is stuff From—future— import barry—as—Flufl all— = ['a', 'b', 'c'] version— = '0.1' author— = 'cardinal biggus' Import— os		module level punder Names
From _ future _ 3mport barry - as _ Flufl - all _ = ['a', 'b', '(')] - version _ = '0.)' - author - = 'cardinal biggus'		all—, author—, vursion—etc. Should be placed to after the module doestring but begon any import statements except from future imports. Python mandates that future-imports must appear in the module before any other
From future 3mport barry_as_ Flufl all_ = ['a', 'b', '(')] version_ = '0.1' author = 'cardinal biggus' 3mpon- os		" " This is the example module.
barry-as_FLUFL all = ['a', 'b', '('] version = '0.1' author = 'cardinal biggus' ?mpon- os		This module is stuff
version -= '0.1' author -= 'cardinal biggus' ?mpon- os		
author = 'cardinal biggus' ?mpon- os		
Import sys.		
		import sys.

	Aditya Paway Page No. FVIT_107 Date:
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
string quotes	
makes a recommendary and strike to it. who or double quote that	d strings and double same this PEP do hon for this pick a un a string contains racture, however, use backslashes in the string.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	is, always we double consistent with the
Whitespall in Express	10ms & statements
Avoid extraneous white	pau in the followin
Immediately inside	parinthises, brackets o
# coney:	
spam (ham [1], fegg	5:23)
# wrong; Spam (ham [1], 1 eg	15:23)

acido.	Addity a Pawan Page No.: FYI7_107 Date Date
-	Between a trailing comma and following done parenthesis:
	# concut: Foo = (0,)
	# wrong: bar = (0,)
	Immediately before a comma, semicolon, or
	# (one(+: 1f x == 4: print (2, y); x 1 4 = 4, x
	However, in a sire the colon acts like a binary operator, and should have equal amounts on either side (treating it as the operator with the lowest priority). In an
	extended size, both colons must have the same amount of spacing applied. Exception. when a size parameter is omitted, the space is omitted.
	# correct: ham [1:9], ham [1:9:3], ham [:9:3], ham [1::3], ham [1:9:]

	Aditya Pawag Page No.:
	FYLT_107 Date:
-	
	ham trower uppers,
	ham I lower : upper. J,
	ham [lower? Step]
	ham [lower+ offset ?
	upper + offset]
	ham [: upper for (so):
	Step for (x) J, hem [::
	step-fn(x)]
	ham [lower + offser : upper +
	OFFSET
	# wrong
	hamt lower + offset upper +
	occurs
	ham [1:9], ham [1:9], hom [1:9]
	: 37
	ham [lower: :upper]
	ham t : upper T
1	
	Immediately before the onen someous was
	stand the argument list of a junction (all
	g a function call
	# concet:
	spam(1)
	# wwng:
	spam(1),
1	
1	
1	
+	
1	

```
Aditya Pawan Page No.
                            FY17_107 Date
 Immediately before the open parentness that
   starts an indixing or strong;
  # conect:
   det [' key'] = |st [index]
  # wrong!
    act to Key 7 = 1st Tindex ]
· more than one space around an assignment
  (or other) operator to align it with another:
  # comet:
 long-variable - 3
  # wrong:
 Iong-voriable = 3
· Avoid trailing whitespace anywhere because
 315 usually invisible, It can be confusing:
 eg a blackslash followed by space and a
 newine does not count as a line continuation
 markey some editors don't preserve it and
 many projects (uke (Python otself) have
 px-commit hooks that reject it
```

	Aditya Pawan Page No.: FVIT_(OT Date:
	Always surround these binary operators with a single space on either side assignment (=) augmented assignment (+=, -= etc.), compare (==, <, >, !=, <>, <=, >=, in, not in, is, is not) booleane (and, or, not).
	operators with different priorities are us consider adding whitespace around the operation the the cowest priority (ses) - use your own judgement; however, never use more than a space, and always have the same amount whitespace on both sides of binary operator
-	
	# wrong: i=i+1 Submitted $t=1$ x=x*2-1 hypot $2=x*x+y*y$ c=(a+b)*(a-b)
Y	in Hon annotations showd use the normalis for colons and always have spaces

one had a set of	Aditya Paway Page No FVI7_107 Date:
function annotations;	
# conect:	
det munge (input: Anystr det munge () -> PosInt	
+ wrong:	
def munge (?nput: AnySt def munge () -> PostInt	n):
when used to indicate a an unannotated function	d orgument, or default value for
# concut: ouf complex (Mal, 3mag= return magic (r= Mal j=imag)	0.0);
# wrong =	
def complex (Hal, 3mag return magic (r= Ho imag)	= 0.0)
with a defaur value, he spaces around the - sign	owiver do use
# concut	
dif munge (sip: Anystrs	
def munge (inpur: Anystr	, s(p)