## INTRODUCTION :-

PEP is an abbseviation form of python enterprises proposal writing code with proper logic is a key factor of programming, but many other important factors can affect the mo code's quality PEP-8 is a document that provides various quideline to would readable in python It describes now developer can write beautiful codes. The main aim of PEP is to enhance the readability and consistency of codes.

CODE LAYOUT :-

INDENTATION : User 4 spaces per indentation level continuation lines should align wrapped element either vertically using python's implicit line joining inside parenthesis, brackets and braces, or using a hanging indent.

When using a hanging indent following should be considered; there should be no arguments on first line and further indentation should be used to clowely distinguish itself as a continuation

Example:

for = function-name (vov1, vav12, vav13, vav14)

When the Conditional part of an if-Statement is long enough to siequire that & be written a cross

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multiple lines, its worth nothing that the combination of two character Keyboard, plus a single space, plus an opening parenthesis create a natural 4-space indent for subsequent lines of multiline conditional.

The closing brace / bracket / parenthesis on multiline constructs may either line up under the first non whitespace character of last line of list or it may be lined up under the first character of line that starts multiline constructe.

TABS OR SPACES:

Spaces are prejuried indentation method. Jabs Should be used solely to remain consistent with Code that is already indented with tabs python disallows mixing tabs and spaces for indentation.

MAXIMUM LINE LENGTH

Limits all lines to a maximum of 79 characters.

Limiting the required editor window width makes it possible to have several files open by side, and works well when using code review tools that present the two verision in adjacent columns.

The limits are chosen to avoid whapping in editors with the window width set to so, even if tool places a markers in final column when warapping lines.

The preferred way of wrapping long lines is by

using python's implied line continuation inside pour enthesis, brackets and braces. Long lines can be broken over multiple lines by weapping expressions in parenthosis. Backlashes may still be appropriate at times.

-> LINE BREAK BEFORE OR AFTER BINARY ORERATOR:

The recommended style was to break after binary operators. But this can havet readibility in two ways of the operators tend to get scatterars across différent across différent columns on scroen, and each operator is moved away from its operand and onto previous line. In python code, it is permissible to break before

or after a binary operator, as long as convention is consistents locally.

BLANK LINES :

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Sweepound top-level function and class definitions with two blank lines

Method définitions inside a class are surrounde à by a single blank line Extra blank lines may be used to separate groups of related function. Blank lines many be omitted between a bunch of related one - linous.

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Imports should usually be on separate lines They are always put at top of file, just after any module comment and doctrings and before module globals and constants.

Imports should be grouped in following orders.

1) Standard library imports

2) Related third party imports

3) local application / library specific imports Absolute Absolute import are recommended, as they are usually more reable and trend to be better behaved if the import system is incoveredly configued Standard library code should avoid complex package layouts and always we absolute

## MODULE LEVEL DUNDER NAMES

Module level "dunder" (names with two leading and two trailing underscases) Such as --- all ---, author\_-, -- version --, etc should be placed after module docstring but before any import Statements excepts from \_- future \_ - imports . much appear in module begore any other code except

\* STRING QUOTES

In python, single-quoted strings and double-quoted

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Strings are same This PEP does not make a recommendation for this When a string contains single or double quote Characters, use the other one to avoid backs lashes in the string. It improves readability \* WHITESPACES IN EXPRESSIONS & STATEMENTS ?-PET PEEVES MADE TIMES MADE COOLS TO

Avoid extrançous whitespace us follow.

- · Immaediately inside parentheses brackets or braces
  · Between a trailing comma and a following close
  powerthesis
  - · Immediatety before a comma, semicolon, or colons
  - · However, in a slice the colon acts like a binary operator, and should have equal amount on either Side start a printor andre pretablina se
  - · Immodiately the open parenthesis that starts the argument list of a function call:
  - · Immediately before the open parenthsis that starts en indexing or slicing.
  - · More that one space around as assignment (or other) operator to align it with another o

-> OTHER RECOMMENDATIONS

· Avoid trailing whitespace anywhore. Because it's usually invisible, it can be confusing some editors don't preserve it and many project have pre-commit hooks that reject it.

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· Always Sworound these binary operators with a single space on either side assignment (=), augmented assignment (+= -= etc).

onsider adding whitespace around the operators with the low priority.

Function annotations should use the normal rules for colons and always have spaces around the -> arrow if possent

Don't use spaces around the = sign when used to indicate a keyword argument, or when used to indicate a defelt value.

WHEN TO USE TRAILING COMMAS

Trailing commas are usually optional, except they are mandatory when making a tuple of one element a tuple of one element when tracking commas are redundant they are often helpful when a version control system is used when a list of value, arguments or imported items is expected to be extended over time.

COMMENTS

-> BLOCK COMMENTS

Block comment generally apply to some code that follows them, and are indented to the same level as that code.

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-> INUNE COMMENTS.

An inline comments is a comment on the same line as a statement. Inline commonts should be Separated by at least Start will the Statement.

=> DOCUMENTATION STRINGS

Dostrings are not necessary for non-public mother but you should have a comment the describes what the method does.

\* NAMING CONVENTIONS

-> OVERRIDING PRINCIPLE Name that are visible to the user as public parts of the API should follow conventions that signect usage rather than implementation.

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-> NAMING STYLES DIGITAL DICTION CONTINUES

There are a lot of different naming styles. It helps to be able to secentize what naming stylo

NAMING CONVENTIONS.

Name to Avoid Never use the characters "1" (lowercase letter el) (o' (upper letter ob), or (1) (uppercase letter eye) as single character variable names.

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- ASCII compatibility

  Idontifier used in the standard library must be
  ASCII compatible as described in the PEP3131
- Package and Module Name.

  Modules should have short all-lowercase name Underscores can be used in the module name if it improves readability.
  - class name Should normally use the capitorids convention.

    The naming convention for function may be used instead in cases where the unt interface is downerled and used primarily as a callable.
- S) Type Variable Names

  Names of type variable introduced in PEP 484

  Should normally use Capwards preferring short
  names: T, Anysto Num.
- Exception Name

  Because exception should be classes, the class naming convention applies here thowever, you should use the Suffix "Exxox" on your exception name (if the exception actually is an evolusi).
- 7) Global variable Name (Let's hope that these variable are meant

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for use inside one module only). The conventions are about the same as those for Functions.

- Function and variable Name.

  Function names should be lowercase, with words separated by underscores as necessary to improve steadability.

  Variable name follow the same convention as Function name.
- 9.) Function and Method Arguments
  Always use Self for the First argument to instance methods.

  Always use is for the First argument to class methods.
- 10-) Method Name and Instance Variables

  Use the Function naming stules: Lowercase with words separated by underscores as necessary. To impossive standability.

  Use one leading underscore only for non-public methods and instance Variables

  To avoid name clashes with subclasses, use two leading underscores to invoke Rython's name mangling rules.
  - constants are usually defined on a module level and woulten in all capital letters with underscores separating worlds

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12) Designing for Inheritance

Always decide whether a class's method and instance variable should be public or non-public. It is doubt, choose non-public, it's easier to make it public later than to make a public attribute nonpublic

Public attributes are those that you expect unrelated chents of your class to use with you commitment to avoid backwards incompatible changes. Non-public attributes are those that are not intended to be used by third parties, you make no guarante that non-public attributes won't change or ever be removed

PUBLIC AND INTERNAL INTERFACES

Any backwards compatibility guarantees apply only to public interfaces. Accordingly, it is important that users be able to clearly distinguish between public and interplaces:

Wocumented interfaces are considered public, unless the documentation explicitly officiares them to be provisional or internal interfaces exempt from the usual backwards compatibility guarantee.

All undocumented interface Should be assumed to be internal.

PROGRAMMING RECOMMENDATIONS

Lode should be usuited in a way that does not distrantage other implementations of python

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Companions to singletons like None should always be done with is or is not, never the equality operators.

Use is not operator rather than not --- is while both expression are functionally identical the former is more readable and preferred. Always use def stevement instead of an assignment statement that binds a jamba expression directly to an identifier:

Function Annotations should be use PEP 484

The experimentation with annotation style that
was recommended previously in the DEP is no
longer encouraged.

Variable Annotations
PEP 526 introduced variable annotation The style
sterommendations for the them are similar to
those on function annotations described.