3/8/25, 11:34 PM about:blank

## **Cheatsheet: Python Coding Practices and Packaging Concepts**



Estimated time needed: 5 minutes

Package/Method	Description	Code Example
Packaging	<ul> <li>To create a package, the folder structure is as follows:</li> <li>1. Project folder → Package name → init.py, module_1.py, module_2.py, and so on.</li> <li>2. In the init.py file, add code to reference the modules in the package.</li> </ul>	<pre>module1.py def function_1(arg):     return <operation output=""> init.py: from . import function_1</operation></pre>
Python Style Guide	<ul> <li>Four spaces for indentation</li> <li>Use blank lines to separate functions and classes</li> <li>Use spaces around operators and after commas</li> <li>Add larger blocks of code inside functions</li> <li>Name functions and files using lowercase with underscores</li> <li>Name classes using CamelCase</li> <li>Name constants in capital letters with underscores separating words</li> </ul>	<pre>def function_1(a, b):     if a &gt; b:         c = c + 5     else:         c = c - 3     return c c = function_1(a, b) Constant Definition example MAX_FILE_UPLOAD_SIZE</pre>
Static Code Analysis	Use Static code analysis method to evaluate your code against a predefined style and standard without executing the code.  For example, use Pylint to perform static code analysis.	Shell code: pylint code.py

about:blank 1/2

3/8/25, 11:34 PM about:blank

Package/Method	Description	Code Example
Package/Method  Unit Testing	Unit testing is a method to validate if units of code are operating as designed.  During code development, each unit is tested. The unit is tested in a continuous integration/continuous delivery test server environment.  You can use different test functions to build unit tests and review the unit test output to determine if the test passed or failed.	<pre>code Example import unittest from mypackage.mymodule import my_function class TestMyFunction(unittest.TestCase):     def test_my_function(self):         result = my_function(<args>)</args></pre>
		<pre>self.asserEqual(result, <response>) unittest.main()</response></pre>

## Author(s)

Abhishek Gagneja

## Other Contributor(s)

Andrew Pfeiffer, Sina Nazeri

about:blank 2/2