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



**Estimated time needed:** 5 minutes

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

or example, use Pylint to perform static code nalysis.	
	import unittest
Unit testing is a method to validate if units of ode are operating as designed.	<pre>from mypackage.mymodul my_function</pre>
During code development, each unit is tested. The unit is tested in a continuous	<pre>class TestMyFunction(unittes</pre>
ntegration/continuous delivery test server environment.	def test_my_functi
ou can use different test functions to build unit	<pre>result = my_function(<args>)</args></pre>
ests and review the unit test output to letermine if the test passed or failed.	self.asserEqua
	unittest.main()
	ode are operating as designed.  Ouring code development, each unit is tested.  The unit is tested in a continuous of tegration/continuous delivery test server nvironment.  Ou can use different test functions to build unit tests and review the unit test output to

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## Changelog

Date	Version	Changed by	Change Description
2023-07-06	0.1	Abhishek Gagneja	Initial version created
2023-07-10	0.2	Andrew Pfeiffer	Documented in AWB

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