#	Original PEP-8	Modified Rule	Reason	PyLint Code	Positive Example	Negative Example
1	Indentation is 4 spaces	Indentation is 2 spaces	Compact code is easier to read	indent-after-paren=2	Each indentation level uses 2 spaces	Each indentation level uses 4 spaces
2	Snake Case	Any	Easier to read	method-naming-style=any	def CalculateTotal(): return 100	def calculate_total(): return 100
3	Keeping number of arguments small	Allowing up to 7 arguments	Gives flexibility in constructors	max-args=7	def create_user(a, b, c, d, e, f, g): return a	def create_user(a, b, c, d, e, f, g, h): return a
4	Max positional arguments is 5	Allowing up to 7 positional arguments	Consistency with args	max-positional-arguments=8	def example(a, b, c, d, e, f, g, h): return a	def example(a, b, c, d, e, f, g, h, i): return a
5	Module names should be snake_case	Ignore module name	Existing module names (EnterpriseManager, EnterpriseRequest) are PascalCase; easier than renaming files	module-naming-style=any	EnterpriseManager.py	enterprise_manager.py
6	Class names should be PascalCase	Ignore class name style	Flexibility to avoid lint errors	class-naming-style=any	class enterprise_manager: pass	class EnterpriseManager: pass
7	Modules, classes, and functions must include docstrings	Docstrings are optional	For small academic or internal modules, mandatory documentation may be unnecessary	disable=C0114,C0115, C0116	def example(): return 5	def example(): """Returns 5""" return 5
8	Const naming style is all caps	Flexible naming style	Flexibility to avoid lint errors	class-const-naming-style=any	class Example: maxValue = 10	class Example: MAX_VALUE = 10

9	Function has snake case	Any	Flexibility to avoid lint errors	function-naming-style= any	def calculate_total(): return 100	def CalculateTotal(): return 100
10	Attribute name is snake case	Any	Flexibility to avoid lint errors	attr-naming-style=any	self.time_stamp = 123	self.timeStamp = 123
11	Argument naming style has to be snake	Any	Flexibility to avoid lint errors	argument-naming-style =any	def example(Cif, phOnE, ENAME): return Cif	def example(cif, phone, enterprise_name): return cif
12	Private attributes (like __timeStamp) should be used in the code.	Allow unused private members without warnings.	Some private members are stored for future use or intentionally unused.	disable=unused-private -member	class Example: def __init__(self): self.__timeStamp = 123	class Example: def __init__(self): self.__timeStamp = 123 # flagged as unused
13	Max locals is 15	Max locals is 20	CIF validation	max-locals=20	def example(): a1=a2=a3=a4=a5=a6=a 7=a8=a9=a10=0 a11=a12=a13=a14=a15 =a16=a17=a18=0	def example(): a1=a2=a3=a4=a5=a6=a 7=a8=a9=a10=0 a11=a12=a13=a14=a15 =a16=a17=a18=a19=a2 0=a21=0
14	Max returns is 6	Changing max returns to 10	improves clarity with more return statements	max-returns=10	def example(x): if x==1: return 1 if x==2: return 2 if x==3: return 3 return 0	Too many return statements beyond 10.
15	Max statements is 50	Changing max statements to 80	Makes sure functions don't split in random places	max-statements=80	Function with 60–70 statements	Function exceeding 80 statements

Before editing:

```
************* Module uc3m_consulting.EnterpriseManagementException
uc3m_consulting/EnterpriseManagementException.py:1:0: C0114: Missing module docstring (missing-module-docstring)
uc3m_consulting/EnterpriseManagementException.py:1:0: C0103: Module name "EnterpriseManagementException" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManagementException.py:1:0: C0115: Missing class docstring (missing-class-docstring)
uc3m_consulting/EnterpriseManagementException.py:7:4: C0116: Missing function or method docstring (missing-function-docstring)
************* Module uc3m_consulting.EnterpriseManager
uc3m_consulting/EnterpriseManager.py:1:0: C0103: Module name "EnterpriseManager" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:10:0: C0115: Missing class docstring (missing-class-docstring)
uc3m_consulting/EnterpriseManager.py:14:4: C0116: Missing function or method docstring (missing-function-docstring)
uc3m_consulting/EnterpriseManager.py:14:4: C0103: Method name "ValidateCIF" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:14:26: C0103: Argument name "CiF" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:46:4: C0116: Missing function or method docstring (missing-function-docstring)
uc3m_consulting/EnterpriseManager.py:46:4: C0103: Method name "ReadproductcodefromJSON" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:50:16: C0103: Variable name "DATA" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:57:12: C0103: Variable name "T_CIF" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:58:12: C0103: Variable name "T_PHONE" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:59:12: C0103: Variable name "E_NAME" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:71:4: C0103: Constant name "valid_cif" doesn't conform to UPPER_CASE naming style (invalid-name)
uc3m_consulting/EnterpriseManager.py:72:4: C0103: Constant name "invalid_cif" doesn't conform to UPPER_CASE naming style (invalid-name)
************* Module uc3m_consulting.EnterpriseRequest
uc3m_consulting/EnterpriseRequest.py:1:0: C0114: Missing module docstring (missing-module-docstring)
uc3m_consulting/EnterpriseRequest.py:1:0: C0103: Module name "EnterpriseRequest" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:5:0: C0115: Missing class docstring (missing-class-docstring)
uc3m_consulting/EnterpriseRequest.py:7:8: C0103: Attribute name "__EnterpriseNAME" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:8:8: C0103: Attribute name "__cIF" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:9:8: C0103: Attribute name "__pHONe" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:11:8: C0103: Attribute name "__timeStamp" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:6:23: C0103: Argument name "Cif" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:6:27: C0103: Argument name "phOnE" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:6:34: C0103: Argument name "ENAME" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:17:4: C0116: Missing function or method docstring (missing-function-docstring)
uc3m_consulting/EnterpriseRequest.py:17:4: C0103: Attribute name "ENTERPRISE_CIF" doesn't conform to snake_case naming style (invalid-name)
uc3m_consulting/EnterpriseRequest.py:20:4: C0103: Attribute name "ENTERPRISE_CIF" doesn't conform to snake_case naming style (invalid-name)
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uc3m_consulting/EnterpriseRequest.py:34:4: C0103: Attribute name "ENTerprise_Name" doesn't conform to snake_case naming style (inv
************* Module uc3m_consulting
uc3m_consulting/__init__.py:1:0: C0114: Missing module docstring (missing-module-docstring)


--------------------------------------------------------------
Your code has been rated at 5.65/10 (previous run: 9.65/10, -4.00)
```

After Pylint:

```
Your code has been rated at 10.00/10 (previous run: 8.71/10, +1.29)


preethisenthilnathan@Preethis-MacBook-Pro-2 G87.2026.TSS.GE1 % PYTHONPATH=. pylint uc3m_consulting/*.py



------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)


preethisenthilnathan@Preethis-MacBook-Pro-2 G87.2026.TSS.GE1 % ▮
```

Code:

```
/usr/local/bin/python3 /Users/preethisenthilnathan/G87.2026.TSS.GE1/UC3M_Consulting/EnterpriseManager.py
Validating A58818501: True
Validating B12345678: False

Process finished with exit code 0
```