4.2 Ejercicio de programación 1

Asignatura: Pruebas de software y aseguramiento de la calidad (Gpo 10)

Fecha: 25/ Enero/2025

Alan Contreras Meléndez   A01794853   A01794853@tec.mx

Ejercicio 1

Antes de usar Pylint:

```
P1.py:17:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:18:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:19:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:20:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:21:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:22:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:23:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:24:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:25:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P1.py:26:0: W0311: Bad indentation. Found 6 spaces, expected 8 (bad-indentation)
P1.py:29:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P1.py:30:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P1.py:31:0: W0311: Bad indentation. Found 4 spaces, expected 8 (bad-indentation)
P1.py:32:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P1.py:33:0: W0311: Bad indentation. Found 4 spaces, expected 8 (bad-indentation)
P1.py:34:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P1.py:1:0: C0114: Missing module docstring (missing-module-docstring)
P1.py:1:0: C0103: Module name "P1" doesn't conform to snake_case naming style (invalid-name)
P1.py:1:0: C0410: Multiple imports on one line (sys, time) (multiple-imports)
P1.py:3:0: C0116: Missing function or method docstring (missing-function-docstring)
P1.py:25:9: W0718: Catching too general exception Exception (broad-exception-caught)
P1.py:5:10: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P1.py:10:10: W0702: No exception type(s) specified (bare-except)
P1.py:22:20: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P1.py:5:10: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)
P1.py:22:20: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)

------------------------------------
Your code has been rated at 0.00/10

PS D:\Maestria\Pruebas de software\Semana 4\P1>
```

Despues de usar Pylint:

```
PS D:\Maestria\Pruebas de software\Semana 4\P1> pylint P1.py
************* Module P1
P1.py:1:0: C0103: Module name "P1" doesn't conform to snake_case naming style (invalid-name)
P1.py:68:11: W0718: Catching too general exception Exception (broad-exception-caught)

------------------------------------------------------------------
Your code has been rated at 9.44/10 (previous run: 0.00/10, +9.44)

PS D:\Maestria\Pruebas de software\Semana 4\P1>
```

Evidencia de resultados:

```
TC1.txt - Media: 242.32, Mediana: 239.50, Moda: 170.00, Varianza: 21099.92, Desviación estándar: 145.26
TC2.txt - Media: 250.78, Mediana: 247.00, Moda: 230.00, Varianza: 20785.37, Desviación estándar: 144.17
TC3.txt - Media: 249.78, Mediana: 249.00, Moda: 94.00, Varianza: 21117.28, Desviación estándar: 145.32
TC4.txt - Media: 149.00, Mediana: 147.75, Moda: 123.75, Varianza: 17007.92, Desviación estándar: 130.41
TC5.txt - Media: 241.50, Mediana: 241.00, Moda: 11.00, Varianza: 21160.02, Desviación estándar: 145.46
TC6.txt - Media: 187906599279774433280.00, Mediana: 188008049965542998016.00, Moda: 962316936170840064.00, Varianza: 11530904699530651698658000239475661209600.00, Desviación estándar:
10738205017381001625600
TC7.txt - Media: 247467395499716247552.00, Mediana: 246640973074290016256.00, Moda: 4304615883770789888.00, Varianza: 20910793147136529701595687680603951464448.00, Desviación estándar:
144605647009847197696.00
Tiempo total de ejecución: 0.8226 segundos
```

Ejercicio 2

Antes de usar Pylint:

```
P2.py:18:0: C0116: Missing function or method docstring (missing-function-docstring)
P2.py:34:9: W0718: Catching too general exception Exception (broad-exception-caught)
P2.py:20:8: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P2.py:21:18: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P2.py:30:6: W0702: No exception type(s) specified (bare-except)
P2.py:20:8: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)
P2.py:21:18: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)

-----------------------------------
Your code has been rated at 0.79/10
```

Despues de usar Pylint:

```
P2.py:68:0: C0301: Line too long (108/100) (line-too-long)
P2.py:1:0: C0103: Module name "P2" doesn't conform to snake_case naming style (invalid-name)
P2.py:79:19: W0718: Catching too general exception Exception (broad-exception-caught)

-----------------------------------------------------------------
Your code has been rated at 9.41/10 (previous run: 0.79/10, +8.62)
```

Evidencia de resultados:

```
TC1.txt - 6980368: binario=11010101000001100010000, hexadecimal=6A8310
TC1.txt - 5517055: binario=10101000010110111111111, hexadecimal=542EFF
TC1.txt - 1336159: binario=101000110001101011111, hexadecimal=14635F
TC1.txt - 6750185: binario=11001101111111111101001, hexadecimal=66FFE9
TC1.txt - 1771937: binario=110110000100110100001, hexadecimal=1B09A1
TC1.txt - 360952: binario=1011000000111111000, hexadecimal=581F8
TC1.txt - 5672561: binario=10101101000111001110001, hexadecimal=568E71
TC1.txt - 916583: binario=11011111110001100111, hexadecimal=DFC67
TC1.txt - 2700138: binario=101001001001101101010, hexadecimal=29336A
TC1.txt - 9645053: binario=100100110010101111111101, hexadecimal=932BFD
TC1.txt - 1181110: binario=100100000010110110110, hexadecimal=1205B6
TC1.txt - 1492185: binario=101101100010011011001, hexadecimal=16C4D9
TC1.txt - 4018595: binario=1111010101000110100011, hexadecimal=3D51A3
TC1.txt - 7654888: binario=11101001100110111101000, hexadecimal=74CDE8
TC1.txt - 7062453: binario=11010111100001110110101, hexadecimal=6BC3B5
TC1.txt - 2478010: binario=1001011100111110111010, hexadecimal=25CFBA
TC1.txt - 6134768: binario=10111011001101111110000, hexadecimal=5D9BF0
TC1.txt - 8420417: binario=100000001111000100000001, hexadecimal=807C41
TC1.txt - 2917489: binario=1011001000010001110001, hexadecimal=2C8471
TC1.txt - 3340773: binario=1100101111100111100101, hexadecimal=32F9E5
TC1.txt - 1115956: binario=100010000011100110100, hexadecimal=110734
TC1.txt - 9172192: binario=100010111111010011100000, hexadecimal=8BF4E0
TC1.txt - 6271996: binario=10111111011001111111100, hexadecimal=5FB3FC
TC1.txt - 8686939: binario=100001001000110101011011, hexadecimal=848D5B
TC1.txt - 50986: binario=1100011100101010, hexadecimal=C72A
TC1.txt - 9376410: binario=100011110001001010011010, hexadecimal=8F129A
TC1.txt - 5962327: binario=10110101111101001010111, hexadecimal=5AFA57
TC1.txt - 7686891: binario=11101010100101011101011, hexadecimal=754AEB
TC1.txt - 6615183: binario=11001001111000010001111, hexadecimal=64F08F
TC1.txt - 1864844: binario=111000111010010001100, hexadecimal=1C748C
TC1.txt - 3329962: binario=1100101100111110101010, hexadecimal=32CFAA
TC1.txt - 3942794: binario=1111000010100110001010, hexadecimal=3C298A
TC1.txt - 2614836: binario=1001111110011000110100, hexadecimal=27E634
TC1.txt - 7406772: binario=11100010000010010110100, hexadecimal=7104B4
TC1.txt - 2384190: binario=1001000110000100111110, hexadecimal=24613E
TC1.txt - 398347: binario=1100001010000001011, hexadecimal=6140B
TC1.txt - 8698503: binario=100001001011101010000111, hexadecimal=84BA87
TC1.txt - 9551696: binario=100100011011111101010000, hexadecimal=91BF50
TC1.txt - 1019556: binario=11111000111010100100, hexadecimal=F8EA4
```

Ejercico 3

Antes de usar Pylint:

```
P3.py:21:0: W0311: Bad indentation. Found 6 spaces, expected 12 (bad-indentation)
P3.py:22:0: W0311: Bad indentation. Found 4 spaces, expected 8 (bad-indentation)
P3.py:24:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P3.py:25:0: W0311: Bad indentation. Found 4 spaces, expected 8 (bad-indentation)
P3.py:28:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P3.py:29:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P3.py:30:0: W0311: Bad indentation. Found 4 spaces, expected 8 (bad-indentation)
P3.py:31:0: W0311: Bad indentation. Found 6 spaces, expected 12 (bad-indentation)
P3.py:32:0: W0311: Bad indentation. Found 2 spaces, expected 4 (bad-indentation)
P3.py:1:0: C0114: Missing module docstring (missing-module-docstring)
P3.py:1:0: C0103: Module name "P3" doesn't conform to snake_case naming style (invalid-name)
P3.py:1:0: C0410: Multiple imports on one line (os, time) (multiple-imports)
P3.py:3:0: C0116: Missing function or method docstring (missing-function-docstring)
P3.py:24:2: W0702: No exception type(s) specified (bare-except)
P3.py:5:8: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P3.py:19:18: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)
P3.py:20:4: C0206: Consider iterating with .items() (consider-using-dict-items)
P3.py:5:8: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)
P3.py:19:18: R1732: Consider using 'with' for resource-allocating operations (consider-using-with)

------------------------------------
Your code has been rated at 0.00/10
```

Despues de usar Pylint:

```
PS D:\Maestria\Pruebas de software\Semana 4\P3> pylint P3.py
************* Module P3
P3.py:38:0: C0303: Trailing whitespace (trailing-whitespace)
P3.py:1:0: C0103: Module name "P3" doesn't conform to snake_case naming style (invalid-name
P3.py:36:11: W0718: Catching too general exception Exception (broad-exception-caught)

-----------------------------------------------------------------
Your code has been rated at 9.12/10 (previous run: 0.00/10, +9.12)
```

Evidencia de resultados:

Resultados para TC1.txt:
achievement: 1
adequate: 1
adventures: 1
anal: 1
andrews: 1
assessed: 1
bedding: 1
blues: 1
buying: 1
cartridge: 1
cgi: 1
championship: 1
clear: 1
club: 1
coastal: 1
collect: 1
comm: 1
confirm: 1
conservative: 2
consistent: 1
contamination: 1
could: 1
cove: 1
craps: 1
customized: 1
danish: 1
dial: 1
drum: 1
ebony: 1
enhanced: 1
exhaust: 1
explorer: 1
father: 1
firms: 1
fonts: 1
glenn: 1
gothic: 1
guestbook: 1
hiking: 1
hyundai: 1
influences: 1
instrumentation: 1