Maestría en Inteligencia Artificial

Pruebas de software y aseguramiento de la calidad

Actividad 4.2

Ejercicio de programación 1

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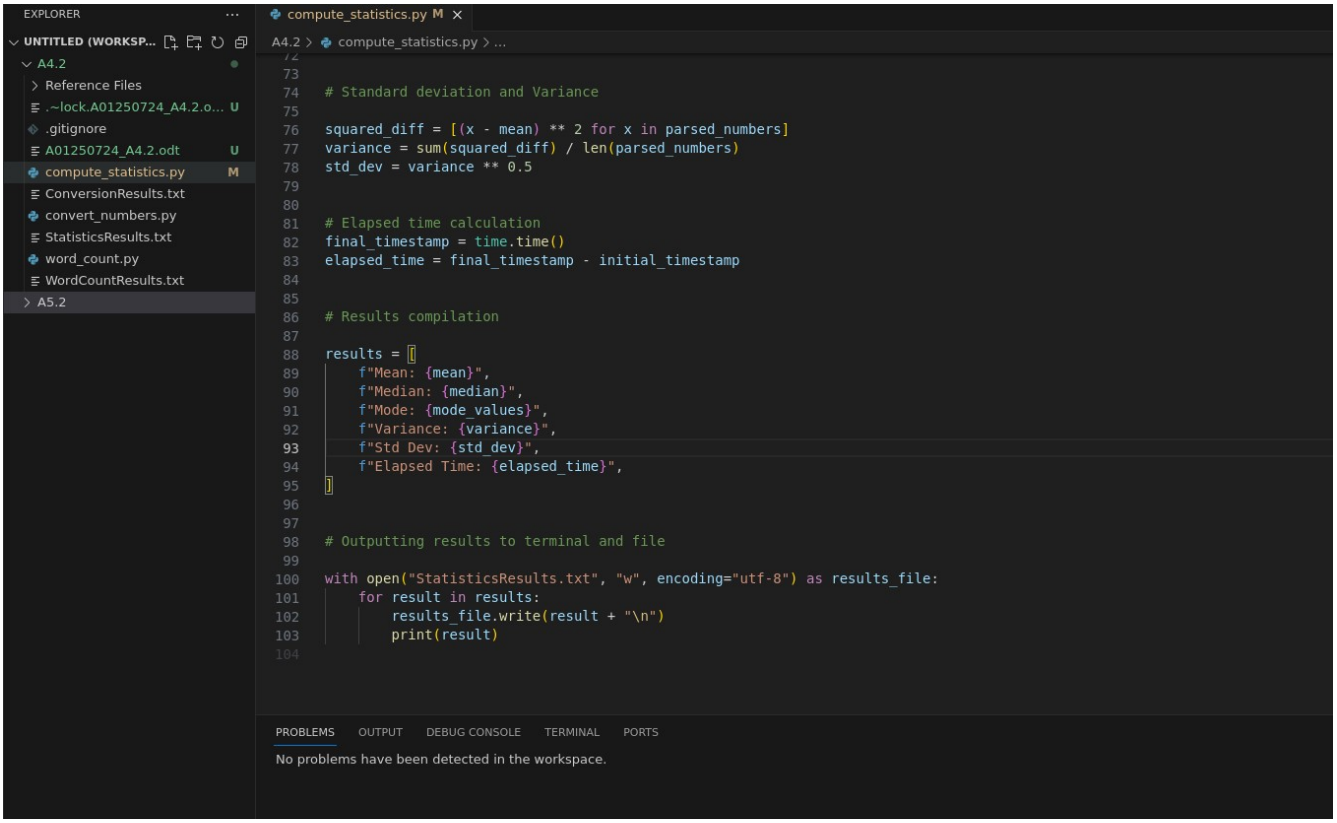
Ejercicio 1

Pylint y flake8

No se muestra ningún problema dentro de VSCode:



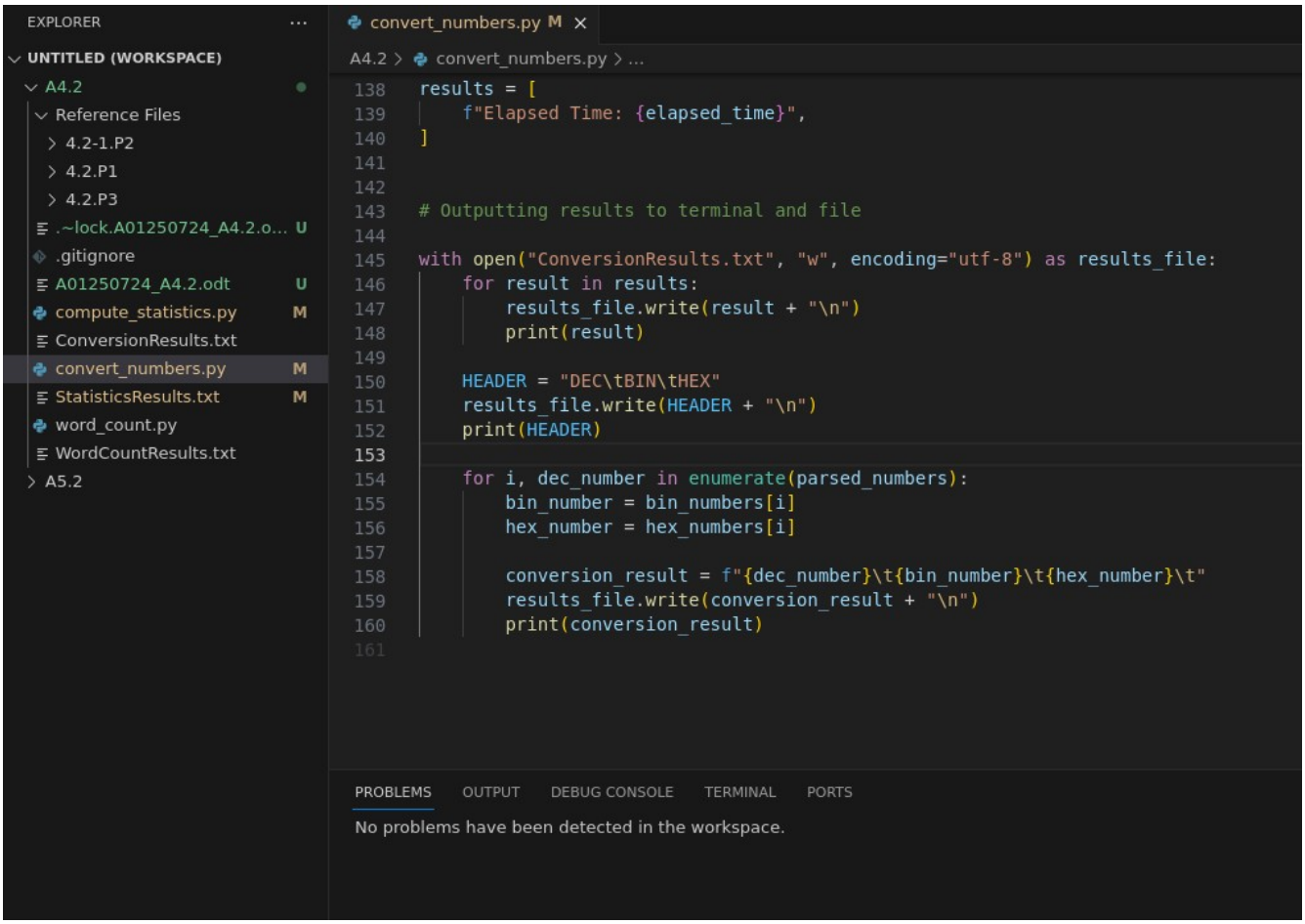
Resultados de los Test Cases:

```
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/compute_statistics.py Reference\ Files/4.2.P1/P1/TC1.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Mean: 242.32
Median: 239.5
Mode: [170.0, 393.0]
Variance: 21099.917599999993
Std Dev: 145.25810683056554
Elapsed Time: 0.009261608123779297
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/compute_statistics.py Reference\ Files/4.2.P1/P1/TC2.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Mean: 250.7840161861406
Median: 247.0
Mode: [230.0]
Variance: 20785.36913247923
Std Dev: 144.17131868884059
Elapsed Time: 0.011495113372802734
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/compute_statistics.py Reference\ Files/4.2.P1/P1/TC3.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Mean: 249.77621989860583
Median: 249.0
Mode: [94.0]
Variance: 21117.27747316333
Std Dev: 145.31784980917976
Elapsed Time: 0.030217647552490234
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
```

Ejercicio 2

Pylint y flake8

No se muestra ningún problema dentro de VSCode:



Resultados de los Test Cases:

```
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/convert_numbers.py Reference\ Files/4.2-1.P2/P2/TC1.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Elapsed Time: 0.0210263729095459
DEC     BIN     HEX
6980368 11010101000001100010000 6A8310
5517055 10101000010111011111111 542EFF
1336159 10100011000110101111   14635F
6750185 11001101111111111101001 66FFE9
1771937 11011000010011010001   1B09A1
360952  1011000000111111000     581F8
5672561 10101101000111001110001 568E71
916583  11011111110001100111    DFC67
2700138 10100100110011011010  29336A
9645053 10010011001010111111101        932BFD
1181110 10010000010110110110   1205B6
1492185 10110110001001101001   16C4D9
4018595 11110101010001101000011  3D51A3
7654888 11101001100110111101000 74CDE8
7062453 11010111100001110110101 6BC3B5
2478010 10010111001111101111010  25CFBA
6134768 10111011001101111110000 5D9BF0
8420417 10000000011111000100001        807C41
2917489 10110010000100011100001  2C8471
3340773 11001011111001111001101  32F9E5
1115956 10001000001110011010   110734
9172192 10001011111101001110000        8BF4E0
6271996 10111111011001111111100 5FB3FC
8686939 10000100100011010101011        848D5B
50986   1100011100101010        C72A
9376410 10001111000100101001101        8F129A
5962327 10110101111101001010111 5AFA57
7686891 11101010100101011101011 754AEB
6615183 11001001111000010001111 64F08F
1864844 11100011101001000100   1C748C
3329962 11001011001111101010  32CFAA
3942794 11110000101001100010  3C298A
2614836 10011111100110001101000  27E634
7406772 11100010000010010110100 7104B4
2384190 10010001100001001111110  24613E
398347  1100001010000001011     6140B
8698503 10000100101110101000011        84BA87
9551696 10010001101111101010000        91BF50
1019556 11111000111010100100    F8EA4
1677430 11001100110000111010   199876
3479629 11010100011000010011101  35184D
9309008 10001110000010110101000        8E0B50
5266170 10100000101101011111010 505AFA
4094340 11111001111001100000100  3E7984
```

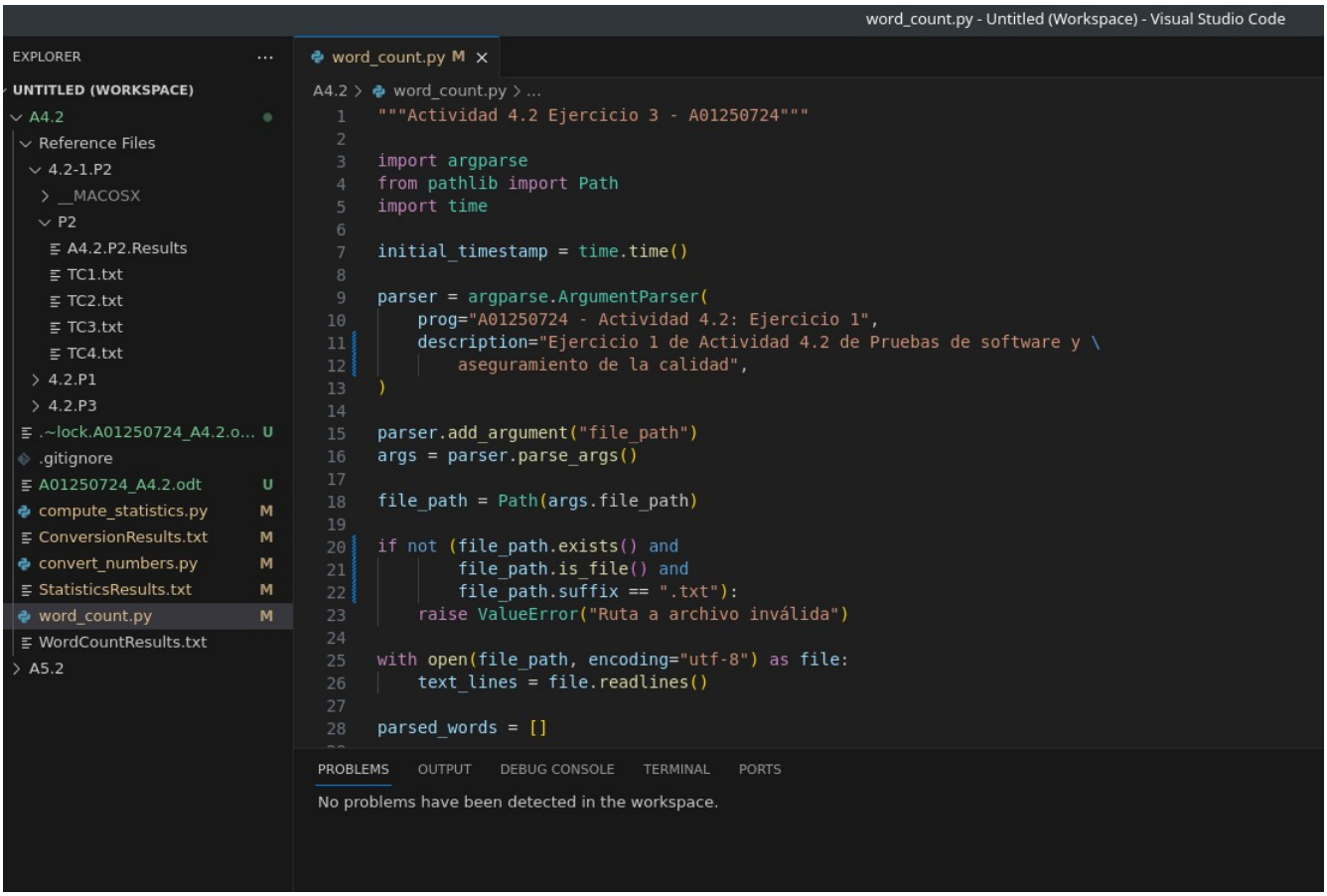
```
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/convert_numbers.py Reference\ Files/4.2-1.P2/P2/TC2.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Elapsed Time: 0.02134871482849121
DEC     BIN     HEX
7116776 11011001001011111101000 6C97E8
1666340 110010110110100100100   196D24
8886983 100001111001101011000111        879AC7
839365  11001100111011000101    CCEC5
924280  11100001101001111000    E1A78
1026310 11111010100100000110    FA906
1615293 11000101001011011101    18A5BD
1063875 10000001110111000011    103BC3
679035  10100101110001111011    A5C7B
5201970 10011110110000000110010 4F6032
593979  10010001000000111011    9103B
801371  11000011101001011011    C3A5B
3796878 11100111101111100011O  39EF8E
7489201 11100100100011010110001 7246B1
9740020 10010100100111011110100         949EF4
9128737 10001011010010110010000l        8B4B21
5473463 10100111000010010110111 5384B7
8701957 10000100110010000000101         84C805
8238050 11111011011001111100010 7DB3E2
8679038 10000100011011001111110         846E7E
385912  1011110001101111000     5E378
5867340 10110011000011101001100 59874C
4894542 10010101010111101001110 4AAF4E
8999451 10001001010100100011011         89521B
4392535 10000110000011001010111 430657
2078131 11111101101011011O011   1FB5B3
3070124 10111011011000101011O0  2ED8AC
7451998 11100011011010101011110 71B55E
5635510 10101011111110110110110 55FDB6
1233932 10010110101000001100   12D40C
6089867 10111001110110010001011 5CEC8B
1792316 11011010110010011110O   1B593C
6298637 11000000001110000001101 601C0D
2408038 10010010111111001100110  24BE66
8510100 10000011101101010010100         81DA94
991581  11110010000101011101    F215D
6455739 11000101000000110111011 6281BB
7829175 11101110111011010110111 7776B7
6328931 11000001001001001100011 609263
9982305 10011000010100010110000l        985161
2292022 10001011111001001l0110  22F936
1070496 10000010101011010000   1055A0
8518360 10000001111110101l011000        81FAD8
```

```
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/convert_numbers.py Reference\ Files/4.2-1.P2/P2/TC3.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Elapsed Time: 0.011340856552124023
DEC     BIN     HEX
-39     1111011001      FFFFFFFFD9
-36     1111011100      FFFFFFFFDC
8       1000    8
34      100010  22
17      10001   11
49      110001  31
5       101     5
39      100111  27
0       0       0
33      100001  21
12      1100    C
-6      1111111010      FFFFFFFFFA
27      11011   1B
-4      1111111100      FFFFFFFFFC
-38     1111011010      FFFFFFFFDA
26      11010   1A
49      110001  31
29      11101   1D
42      101010  2A
-16     1111110000      FFFFFFFFF0
-28     1111100100      FFFFFFFFE4
34      100010  22
20      10100   14
0       0       0
25      11001   19
45      101101  2D
3       11      3
-46     1111010010      FFFFFFFFD2
-46     1111010010      FFFFFFFFD2
29      11101   1D
33      100001  21
29      11101   1D
26      11010   1A
-5      1111111011      FFFFFFFFFB
-36     1111011100      FFFFFFFFDC
12      1100    C
45      101101  2D
-50     1111001110      FFFFFFFFCE
0       0       0
-6      1111111010      FFFFFFFFFA
-39     1111011001      FFFFFFFFD9
35      100011  23
26      11010   1A
-35     1111011101      FFFFFFFFDD
-42     1111010110      FFFFFFFFD6
```

Ejercicio 3

Pylint y flake8

No se muestra ningún problema dentro de VSCode:



Resultados de los Test Cases:

```
sh-5.2$ /bin/python /home/deck/Documents/School/Pruebas/A4.2/word_count.py Reference\ Files/4.2.P3/P3/TC3.txt
[468 preload-host-spawn-strategy] Warning: waitpid override ignores groups
Elapsed Time: 0.01584911346435547
Word    Count
neighbors       1
manual  1
political       1
mozambique      1
old     1
holding 1
fc      1
ford    1
comparable      1
industries      1
antiques        1
waste   1
voice   1
blond   1
z       1
flood   2
enables 1
feels   1
validity        1
midnight        1
matters 1
mortgage        1
daughters       1
diana   1
notice  3
postal  1
reproduced      1
mpegs   1
persistent      1
butts   1
ban     1
underground     1
midi    1
correct 1
```