

## **Actividad 4.**

### **Documentación de Ejercicios**

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El presente trabajo ha sido realizado cumpliendo las políticas del curso y con los criterios de evaluación de la actividad. Asimismo, establezco que el contenido de este trabajo ha sido documentado en fuentes bibliográficas autorizadas, por tanto, la información redactada no ha sido plagiada de otro documento o trabajo ajeno ni de cualquier otra fuente de carácter confidencial.

## Exercise #1: Compute statistics

☒ Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a list of items (presumable numbers).

☒ Req 2. The program shall compute all descriptive statistics from a file containing numbers. The results shall be print on a screen and on a file named StatisticsResults.txt. All computation MUST be calculated using the basic algorithms, not functions or libraries. The descriptive statistics are mean, median, mode, standard deviation, and variance.

☒ Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue.

☒ Req 4. The name of the program shall be computeStatistics.py

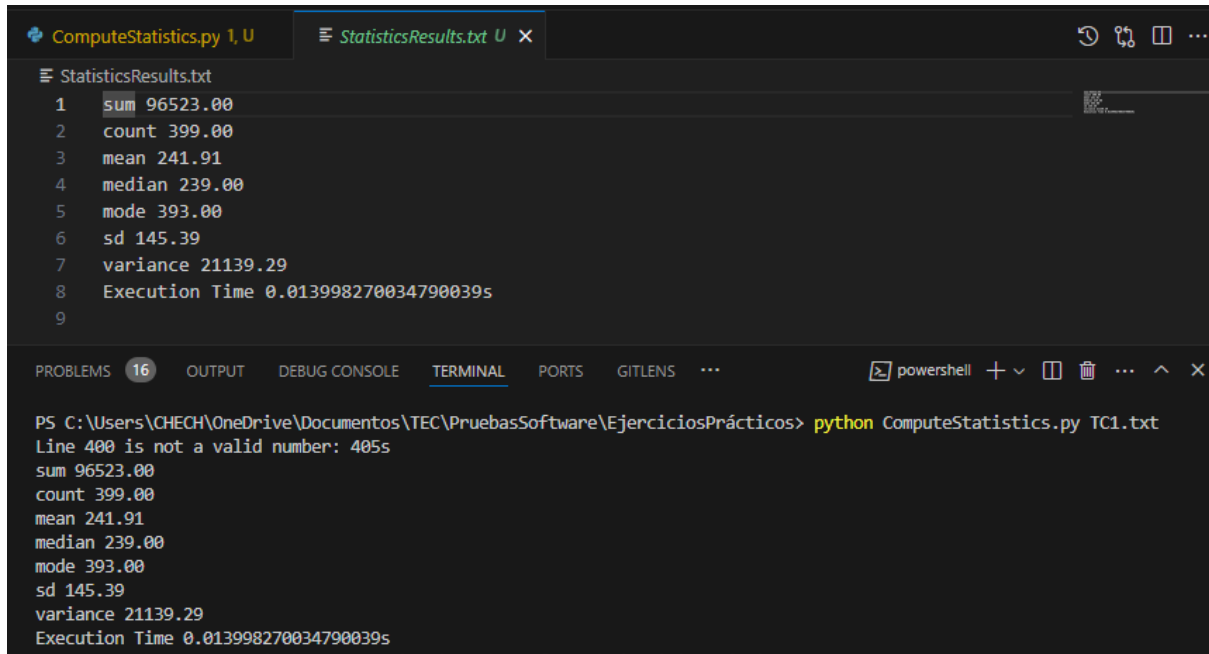
☒ Req 5. The minimum format to invoke the program shall be as follows: python computeStatistics.py fileWithData.txt

☒ Req 6. The program shall manage files having from hundreds of items to thousands of items.

☒ Req 7. The program should include at the end of the execution the time elapsed for the execution and calculus of the data. This number shall be included in the results file and on the screen.

☒ Req 8. Be compliant with PEP8

- Results

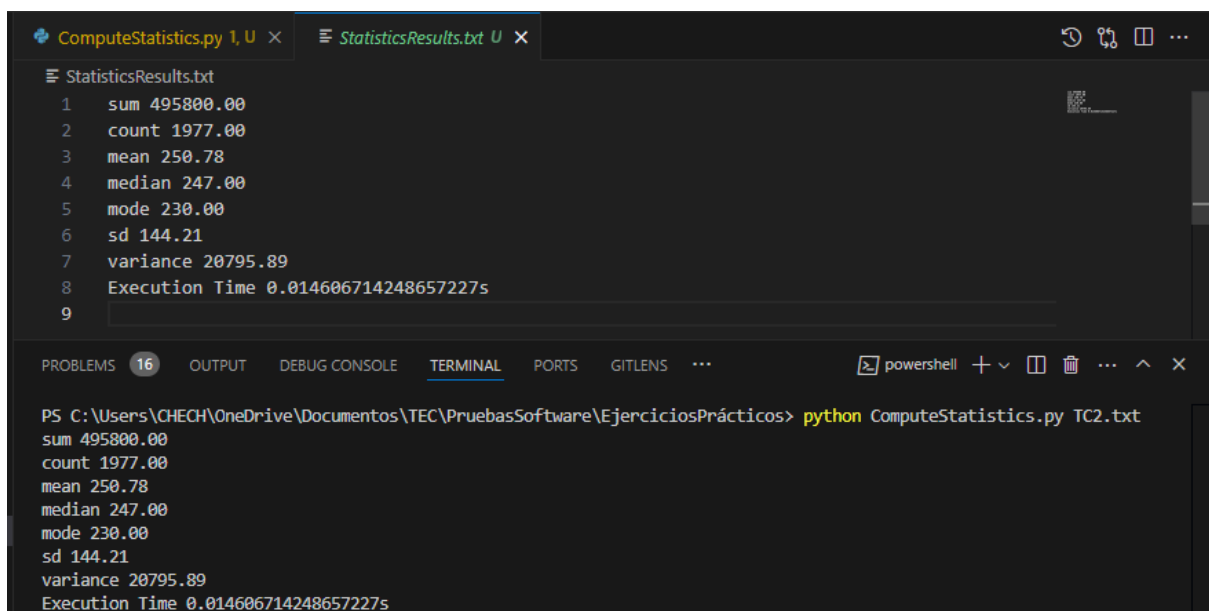


The screenshot shows the VS Code editor with two tabs: `ComputeStatistics.py 1, U` and `StatisticsResults.txt U`. The `StatisticsResults.txt` file contains the following statistics:

```
1 sum 96523.00
2 count 399.00
3 mean 241.91
4 median 239.00
5 mode 393.00
6 sd 145.39
7 variance 21139.29
8 Execution Time 0.013998270034790039s
9
```

The terminal window shows the command `python ComputeStatistics.py TC1.txt` being executed, resulting in the same statistics as the file.

```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos> python ComputeStatistics.py TC1.txt
Line 400 is not a valid number: 405s
sum 96523.00
count 399.00
mean 241.91
median 239.00
mode 393.00
sd 145.39
variance 21139.29
Execution Time 0.013998270034790039s
```

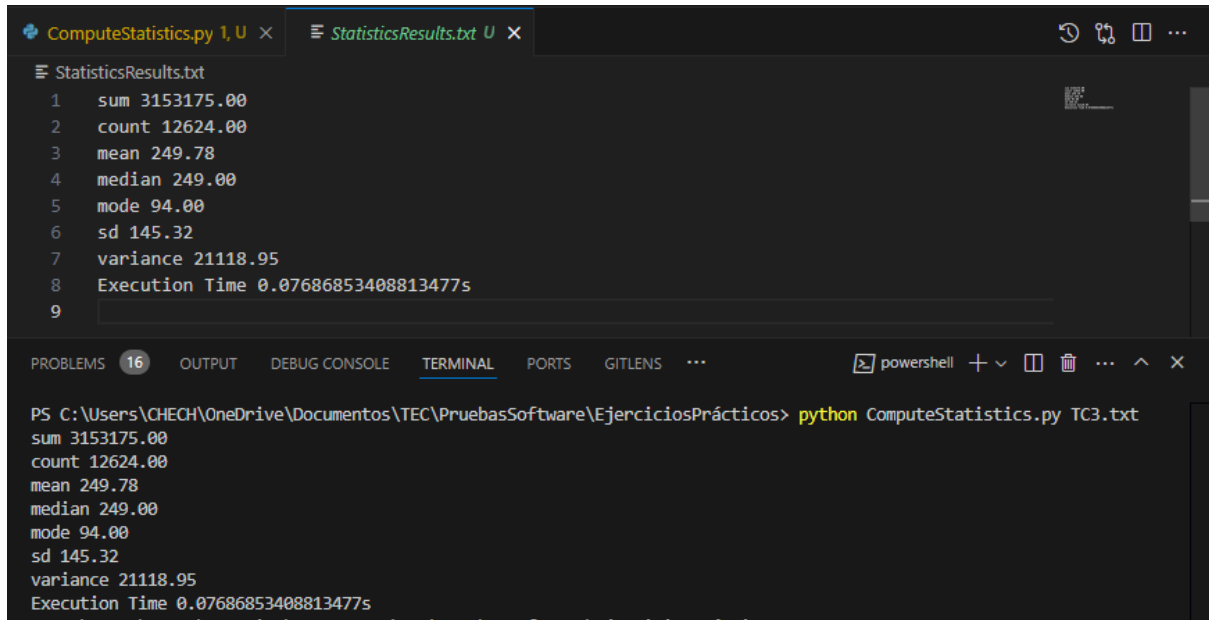


The screenshot shows the VS Code editor with two tabs: `ComputeStatistics.py 1, U` and `StatisticsResults.txt U`. The `StatisticsResults.txt` file contains the following statistics:

```
1 sum 495800.00
2 count 1977.00
3 mean 250.78
4 median 247.00
5 mode 230.00
6 sd 144.21
7 variance 20795.89
8 Execution Time 0.014606714248657227s
9
```

The terminal window shows the command `python ComputeStatistics.py TC2.txt` being executed, resulting in the same statistics as the file.

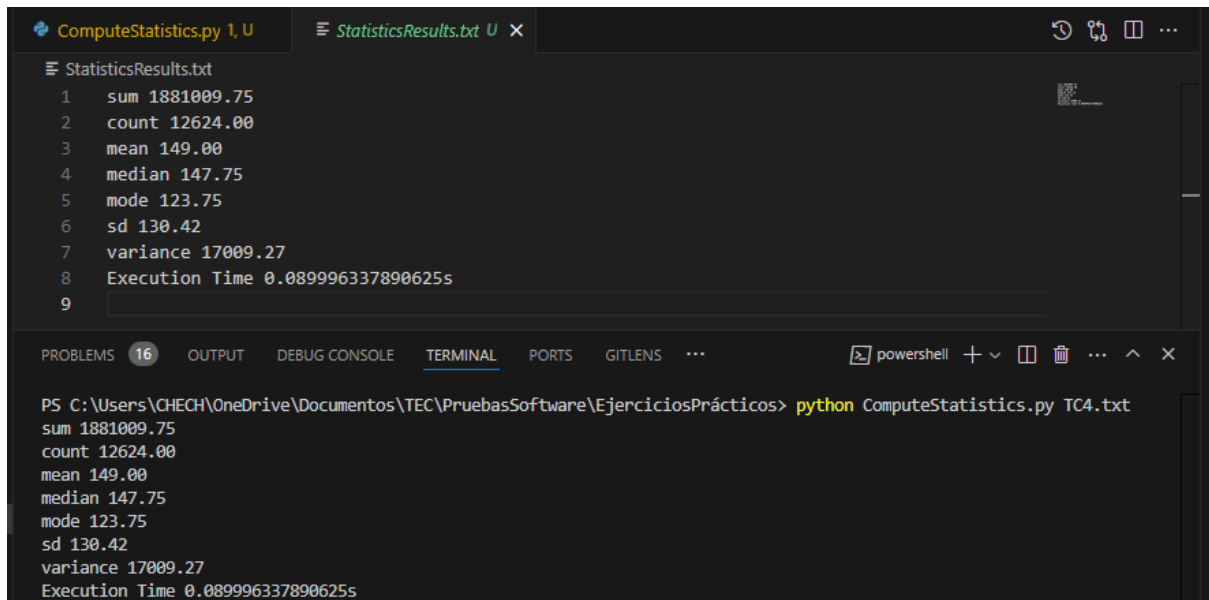
```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos> python ComputeStatistics.py TC2.txt
sum 495800.00
count 1977.00
mean 250.78
median 247.00
mode 230.00
sd 144.21
variance 20795.89
Execution Time 0.014606714248657227s
```



The screenshot shows a Visual Studio Code editor with two tabs: `ComputeStatistics.py 1, U` and `StatisticsResults.txt U`. The `StatisticsResults.txt` file contains the following statistics:

```
1 sum 3153175.00
2 count 12624.00
3 mean 249.78
4 median 249.00
5 mode 94.00
6 sd 145.32
7 variance 21118.95
8 Execution Time 0.07686853408813477s
9
```

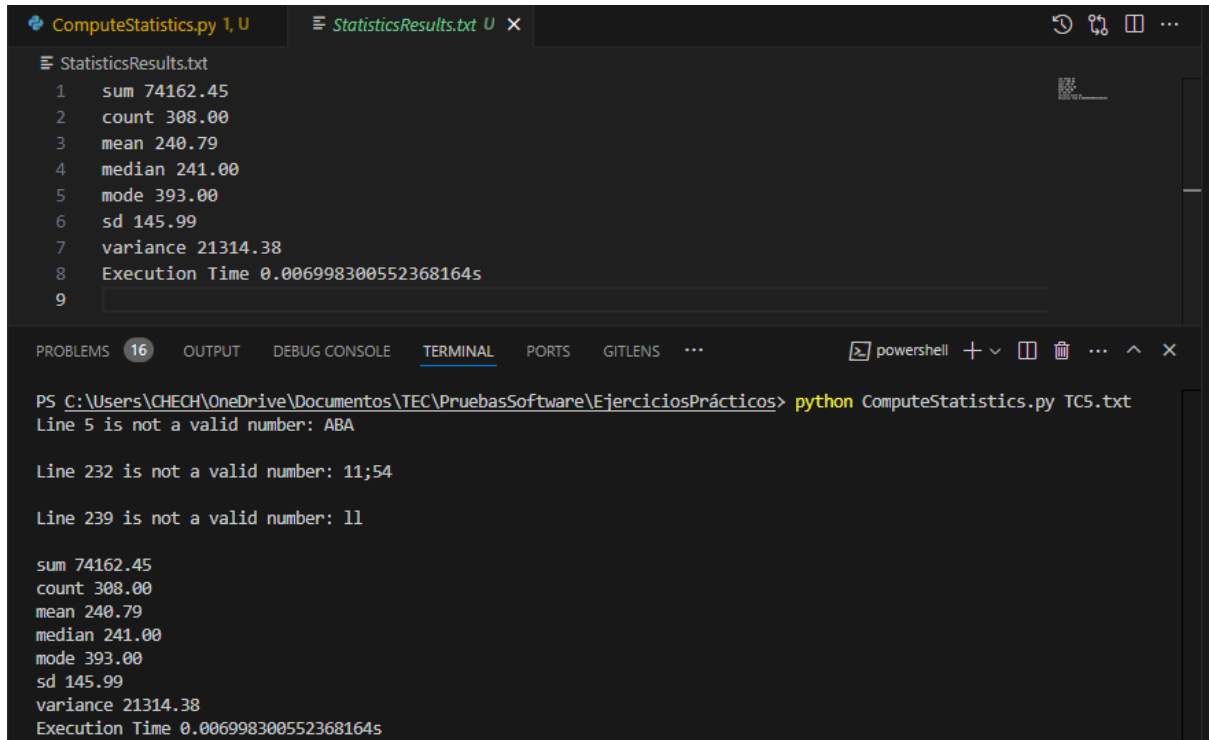
The terminal window at the bottom shows the command `python ComputeStatistics.py TC3.txt` being executed, with the same statistical output as the file.



The screenshot shows a Visual Studio Code editor with two tabs: `ComputeStatistics.py 1, U` and `StatisticsResults.txt U`. The `StatisticsResults.txt` file contains the following statistics:

```
1 sum 1881009.75
2 count 12624.00
3 mean 149.00
4 median 147.75
5 mode 123.75
6 sd 130.42
7 variance 17009.27
8 Execution Time 0.089996337890625s
9
```

The terminal window at the bottom shows the command `python ComputeStatistics.py TC4.txt` being executed, with the same statistical output as the file.



The screenshot shows the Visual Studio Code editor with two tabs: `ComputeStatistics.py` and `StatisticsResults.txt`. The `StatisticsResults.txt` file contains the following text:

```
1 sum 74162.45
2 count 308.00
3 mean 240.79
4 median 241.00
5 mode 393.00
6 sd 145.99
7 variance 21314.38
8 Execution Time 0.006998300552368164s
9
```

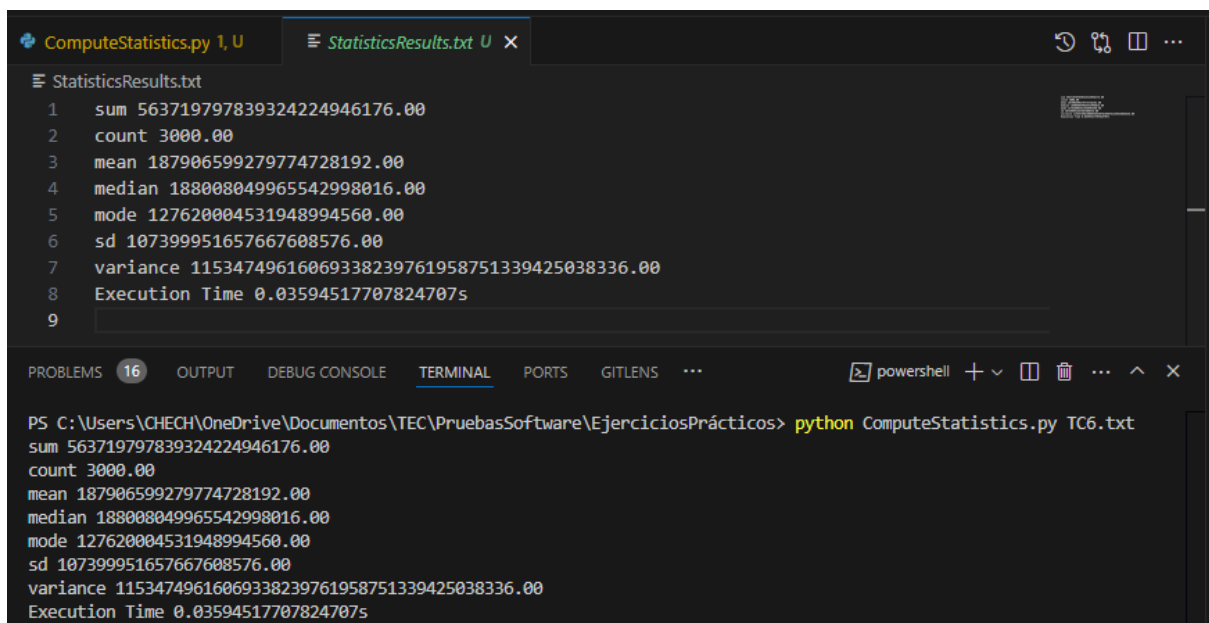
The terminal window at the bottom shows the command `python ComputeStatistics.py TC5.txt` being executed. The output indicates errors on lines 5, 232, and 239 of the input file, followed by the same statistical results as shown in the `StatisticsResults.txt` file.

```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos> python ComputeStatistics.py TC5.txt
Line 5 is not a valid number: ABA

Line 232 is not a valid number: 11;54

Line 239 is not a valid number: 11

sum 74162.45
count 308.00
mean 240.79
median 241.00
mode 393.00
sd 145.99
variance 21314.38
Execution Time 0.006998300552368164s
```

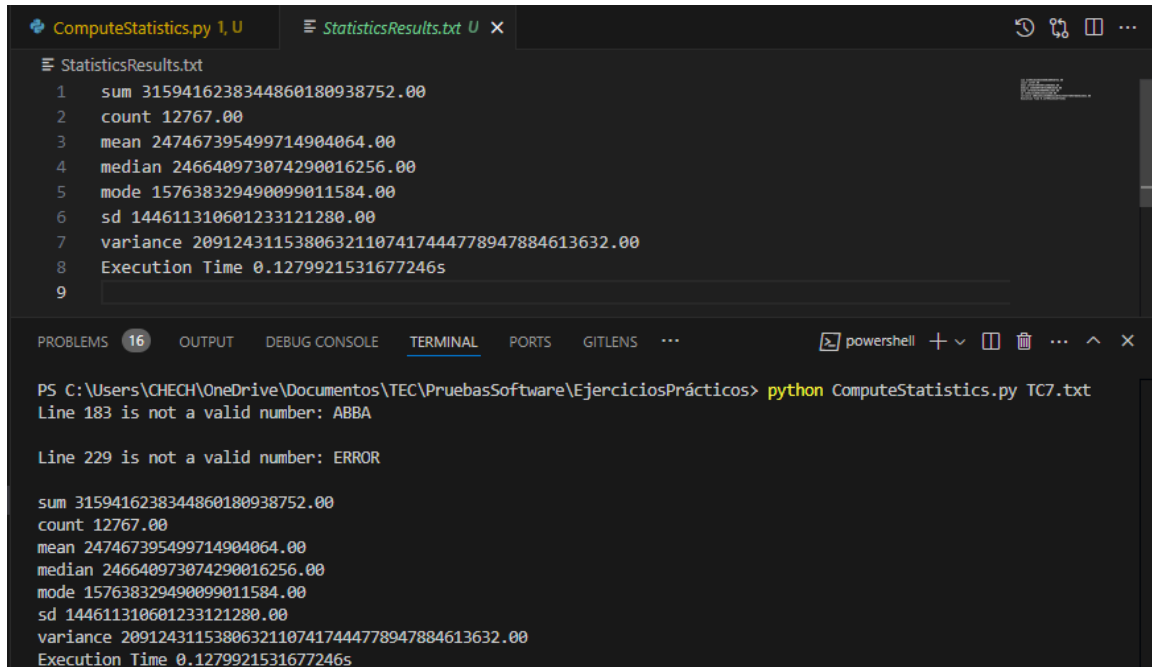


The screenshot shows the Visual Studio Code editor with two tabs: `ComputeStatistics.py` and `StatisticsResults.txt`. The `StatisticsResults.txt` file contains the following text:

```
1 sum 563719797839324224946176.00
2 count 3000.00
3 mean 187906599279774728192.00
4 median 188008049965542998016.00
5 mode 127620004531948994560.00
6 sd 107399951657667608576.00
7 variance 11534749616069338239761958751339425038336.00
8 Execution Time 0.03594517707824707s
9
```

The terminal window at the bottom shows the command `python ComputeStatistics.py TC6.txt` being executed. The output displays the same statistical results as shown in the `StatisticsResults.txt` file.

```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos> python ComputeStatistics.py TC6.txt
sum 563719797839324224946176.00
count 3000.00
mean 187906599279774728192.00
median 188008049965542998016.00
mode 127620004531948994560.00
sd 107399951657667608576.00
variance 11534749616069338239761958751339425038336.00
Execution Time 0.03594517707824707s
```

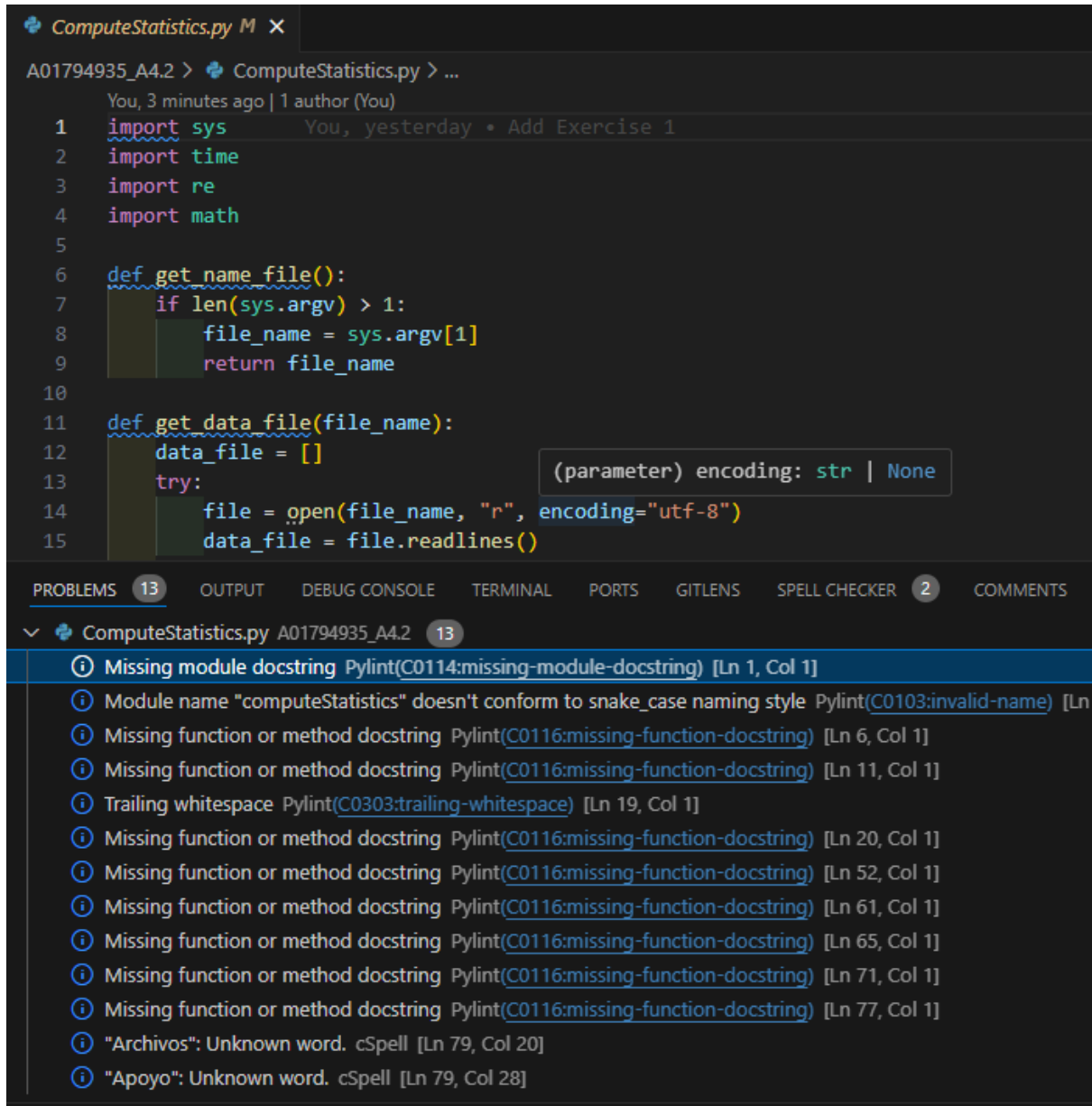


The screenshot shows a VS Code editor with two tabs: `ComputeStatistics.py` and `StatisticsResults.txt`. The `StatisticsResults.txt` tab is active, displaying the following statistics:

```
1 sum 3159416238344860180938752.00
2 count 12767.00
3 mean 247467395499714904064.00
4 median 246640973074290016256.00
5 mode 157638329490099011584.00
6 sd 144611310601233121280.00
7 variance 20912431153806321107417444778947884613632.00
8 Execution Time 0.1279921531677246s
9
```

The terminal at the bottom shows the command `python ComputeStatistics.py TC7.txt` being executed. It displays two error messages: `Line 183 is not a valid number: ABBA` and `Line 229 is not a valid number: ERROR`. Below these errors, the same statistics as in the `StatisticsResults.txt` file are printed.

- Pylint



```
1 import sys
2 import time
3 import re
4 import math
5
6 def get_name_file():
7     if len(sys.argv) > 1:
8         file_name = sys.argv[1]
9         return file_name
10
11 def get_data_file(file_name):
12     data_file = []
13     try:
14         file = open(file_name, "r", encoding="utf-8")
15         data_file = file.readlines()
```

PROBLEMS 13 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 2 COMMENTS

ComputeStatistics.py A01794935\_A4.2 13

- Missing module docstring Pylint(C0114:missing-module-docstring) [Ln 1, Col 1]
- Module name "computeStatistics" doesn't conform to snake\_case naming style Pylint(C0103:invalid-name) [Ln 1, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 6, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 11, Col 1]
- Trailing whitespace Pylint(C0303:trailing-whitespace) [Ln 19, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 20, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 52, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 61, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 65, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 71, Col 1]
- Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 77, Col 1]
- "Archivos": Unknown word. cSpell [Ln 79, Col 20]
- "Apoyo": Unknown word. cSpell [Ln 79, Col 28]

It was necessary to change the file name because don't compliance with the snake\_case naming style.

```
compute_statistics.py U x
A01794935_A4.2 > compute_statistics.py > get_name_file
1  """Module calculate the principal statistics from a file input."""
2
3  import sys
4  import time
5  import re
6  import math
7
8  def get_name_file():
9      """Gets the name of the file from the command line."""
10     if len(sys.argv) > 1:
11         file_name = sys.argv[1]
12         return file_name
13     print("Please provide the name of the file as an argument.")
14     return ""
15
16 def get_data_file(file_name):

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS  SPELL CHECKER  2  COMMENTS  powershell + v
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> pylint compute_statistics.py

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

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> 
```

The code is executed successfully.

```
compute_statistics.py U x
A01794935_A4.2 > compute_statistics.py > get_name_file
1  """Module calculate the principal statistics from a file input."""
2
3  import sys
4  import time
5  import re
6  import math
7
8  def get_name_file():
9      """Gets the name of the file from the command line."""
10     if len(sys.argv) > 1:
11         file_name = sys.argv[1]
12         return file_name
13     print("Please provide the name of the file as an argument.")
14     return ""
15
16 def get_data_file(file_name):

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS  SPELL CHECKER  2  COMMENTS  powershell + v
-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python compute_statistics.py
Please provide the name of the file as an argument.
Execution Time 0.0010018348693847656s
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python compute_statistics.py TC1.txt
Line 400 is not a valid number: 405s
sum 96523.00
count 399.00
mean 241.91
median 239.00
mode 393.00
sd 145.39
variance 21139.29
Execution Time 0.004000425338745117s
```



## Exercise #2: Converter

- ☒ Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a list of items (presumable numbers).
- ☒ Req 2. The program shall convert the numbers to binary and hexadecimal base. The results shall be print on a screen and on a file named ConversionResults.txt. All computation **MUST** be calculated using the basic algorithms, not functions or libraries.
- ☒ Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue.
- ☒ Req 4. The name of the program shall be convertNumbers.py
- ☒ Req 5. The minimum format to invoke the program shall be as follows: python convertNumbers.py fileWithData.txt
- ☒ Req 6. The program shall manage files having from hundreds of items to thousands of items.
- ☒ Req 7. The program should include at the end of the execution the time elapsed for the execution and calculus of the data. This number shall be included in the results file and on the screen.
- ☒ Req 8. Be compliant with PEP8.

- Results

```
convertNumbers.py 1, U  ConversionResults.txt U x
A01794935_A4.2 > ConversionResults.txt
186 345464 1010100010101111000 54578
187 4281218 10000010101001110000010 415382
188 6558883 11001000001010010100011 6414A3
189 3852986 11101011001010111010 3ACABA
190 6263187 10111111001000110010011 5F9193
191 5828308 10110001110111011010100 58EED4
192 8058535 11110101111011010100111 7AF6A7
193 9035191 100010011101110110110111 89DDB7
194 7922103 11110001110000110110111 78E1B7
195 9366003 100011101110100111110011 8EE9F3
196 4555717 10001011000001111000101 4583C5
197 3526753 1101011101000001100001 35D061
198 3176815 11000001111001011011111 30796F
199 858440 11010001100101001000 D1948
200 2250854 1000100101100001100110 225866
201 Execution Time 0.041571617126464844s
202 |

PROBLEMS 21 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 11 COMMENTS powershell + v
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python convertNumbers.py TC1.txt
6980368 11010101000001100010000 6A8310
5517055 10101000010111011111111 542EFF
1336159 101000110001101011111 14635F
6750185 1100110111111111101001 66FFE9
1771937 110110000100110100001 1B09A1
360952 1011000000111111000 581F8
5672561 10101101000111001110001 568E71
916583 11011111110001100111 DFC67
2700138 1010010011001101101010 29336A
9645053 100100110010101111111101 932BFD
1181110 100100000010110110110 1205B6
1492185 101101100010011011001 16C4D9
4018595 1111010101000110100011 3D51A3
7654888 11101001100110111101000 74CDE8
7062453 11010111100001110110101 6BC3B5
```

convertNumbers.py 1, U ConversionResults.txt U X

A01794935\_A4.2 > ConversionResults.txt

```
186 8941444 100010000110111110000100 886F84
187 4942703 10010110110101101101111 4B6B6F
188 101144 11000101100011000 18B18
189 7471180 11100100000000001001100 72004C
190 1932131 111010111101101100011 1D7B63
191 8052752 11110101110000000010000 7AE010
192 6359493 11000010000100111000101 6109C5
193 1967646 111100000011000011110 1E061E
194 6575052 11001000101001111001100 6453CC
195 2323342 1000110111001110001110 23738E
196 6735760 11001101100011110010000 66C790
197 8895858 100001111011110101110010 87BD72
198 4238091 10000001010101100001011 40AB0B
199 7093069 11011000011101101001101 6C3B4D
200 39 100111 27
201 Execution Time 0.04429793357849121s
202
```

PROBLEMS 17 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 7 COMMENTS

powershell + v

```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python convertNumbers.py TC2.txt
7116776 11011001001011111101000 6C97E8
1666340 110010110110100100100 196D24
8886983 100001111001101011000111 879AC7
839365 11001100111011000101 CCEC5
924280 11100001101001111000 E1A78
1026310 11111010100100000110 FA906
1615293 110001010010110111101 18A5BD
1063875 100000011101111000011 103BC3
679035 10100101110001111011 A5C7B
5201970 10011110110000000110010 4F6032
593979 10010001000000111011 9103B
801371 11000011101001011011 C3A5B
3796878 1110011110111110001110 39EF8E
7489201 11100100100011010110001 7246B1
9740020 100101001001111011110100 949EF4
```

convertNumbers.py 1, U ConversionResults.txt U X

A01794935\_A4.2 > ConversionResults.txt

```
186 33 100001 21
187 -13 1111110011 FFFFFFFF3
188 33 100001 21
189 -10 1111110110 FFFFFFFF6
190 47 101111 2F
191 47 101111 2F
192 -13 1111110011 FFFFFFFF3
193 -32 1111100000 FFFFFFFF0
194 1 1 1
195 1 1 1
196 -25 1111100111 FFFFFFFF7
197 -33 1111011111 FFFFFFFFDF
198 16 10000 10
199 17 10001 11
200 4 100 4
201 Execution Time 0.047514915466308594s
202
```

PROBLEMS 55 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 45 COMMENTS

powershell + v

```
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python convertNumbers.py TC3.txt
-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 FFFFFFFFCC
```

```
convertNumbers.py 1, U  ConversionResults.txt x
A01794935_A4.2 > ConversionResults.txt
24 45 101101 2D
25 3 11 3
26 -46 1111010010 FFFFFFFFD2
27 -46 1111010010 FFFFFFFFD2
28 29 11101 1D
29 33 100001 21
30 29 11101 1D
31 26 11010 1A
32 -5 1111111011 FFFFFFFFB
33 -36 1111011100 FFFFFFFFDC
34 12 1100 C
35 45 101101 2D
36 -50 1111001110 FFFFFFFFCE
37 0 0 0
38 -6 1111111010 FFFFFFFFA
39 Execution Time 0.019998788833618164s
40

PROBLEMS 20 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 10 COMMENTS powershell + v
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python convertNumbers.py TC4.txt
Line 8 is not a valid number: ABC

Line 21 is not a valid number: ERR

Line 41 is not a valid number: VAL
-39 1111011001 FFFFFFFFD9
-36 1111011100 FFFFFFFFDC
8 1000 8
34 100010 22
17 10001 11
49 110001 31
5 101 5
0 0 0
```

- Pylint

```
convertNumbers.py 1 x
A01794935_A4.2 > convertNumbers.py > dec_to_binary
41 def dec_to_binary(number):
53
54     if is_negative:
55         invert_array.append(0)
56         for i, bit in enumerate(invert_array):
57             bit = abs(bit - 1)
58             if i == 0:
59                 bit += 1
60                 if bit == 2:
61                     bit = 0
62                     carry = 1
63             else:
64                 bit += carry
65                 if bit == 2:
66                     bit = 0
67                     carry = 1
```

PROBLEMS 10 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 2 Filter (e.g. text, \*\*/\*.ts, !)

convertNumbers.py A01794935\_A4.2 10

- ⚠ Redefining built-in 'hex' Pylint(W0622:redefined-builtin) [Ln 31, Col 13]
- ❗ Missing module docstring Pylint(C0114:missing-module-docstring) [Ln 1, Col 1]
- ❗ Module name "convertNumbers" doesn't conform to snake\_case naming style Pylint(C0103:invalid-name) [Ln 1, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 6, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 11, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 20, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 41, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 83, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 134, Col 1]
- ❗ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 140, Col 1]

It was necessary to change the file name because don't compliance with the snake\_case naming style.

```

convert_numbers.py U X
A01794935_A4.2 > convert_numbers.py > binary_to_hex
1  """Module calculate the principal statistics from a file input."""
2
3  import sys
4  import time
5  import re
6  import math
7
8  def get_name_file():
9      """Gets the name of the file from the command line."""
10     if len(sys.argv) > 1:
11         file_name = sys.argv[1]
12         return file_name
13     print("Please provide the name of the file as an argument.")
14     return ""
15
16 def get_data_file(file_name):

```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS GITLENS SPELL CHECKER 2 COMMENTS powershell

```

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> pylint convert_numbers.py

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

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2>

```

The code is executed successfully.

```

convert_numbers.py U X
A01794935_A4.2 > convert_numbers.py > binary_to_hex
91 def binary_to_hex(binary, number):
103     "0000": "0",
104     "0001": "1",
105     "0010": "2",
106     "0011": "3",
107     "0100": "4",
108     "0101": "5",
109     "0110": "6",
110     "0111": "7",
111     "1000": "8",
112     "1001": "9",
113     "1010": "A",
114     "1011": "B",
115     "1100": "C",
116     "1101": "D",
117     "1110": "E",

```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS GITLENS SPELL CHECKER 2 COMMENTS powershell + v

```

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> pylint convert_numbers.py

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

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python convert_numbers.py TC3.txt
-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

```

## Exercise #3: Count Words

☒Req1. The program shall be invoked from a command line. The program shall receive a file as parameter. The file will contain a words (presumable between spaces).

☒Req 2. The program shall identify all distinct words and the frequency of them (how many times the word “X” appears in the file). The results shall be print on a screen and on a file named WordCountResults.txt. All computation MUST be calculated using the basic algorithms, not functions or libraries.

☒Req 3. The program shall include the mechanism to handle invalid data in the file. Errors should be displayed in the console and the execution must continue.

☒Req 4. The name of the program shall be wordCount.py

☒Req 5. The minimum format to invoke the program shall be as follows: python wordCount.py fileWithData.txt

☒Req 6. The program shall manage files having from hundreds of items to thousands of items.

☒Req 7. The program should include at the end of the execution the time elapsed for the execution and calculus of the data. This number shall be included in the results file and on the screen.

☒Req 8. Be compliant with PEP8

- Results

```
wordCount.py U WordCountResults.txt X
A01794935_A4.2 > WordCountResults.txt
87 club 1
88 mon 1
89 comm 1
90 blues 1
91 collect 1
92 lies 1
93 seats 1
94 worse 1
95 guestbook 1
96 influences 1
97 kodak 1
98 significance 1
99 coastal 1
100 Grand Total: 100
101 Execution Time 0.017002105712890625s
102

PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 4 COMMENTS powershell +
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python wordCount.py TC1.txt
conservative 2
mother 1
tions 1
pin 1
sure 1
regulatory 1
shower 1
uni 1
dial 1
photography 1
buying 1
firms 1
```

```
wordCount.py U WordCountResults.txt X
A01794935_A4.2 > WordCountResults.txt
131 rentals 1
132 practical 1
133 steve 1
134 serious 1
135 mens 1
136 faculty 1
137 initiative 1
138 variety 1
139 ion 1
140 interface 1
141 remained 1
142 icons 1
143 excessive 1
144 jon 1
145 Grand Total: 184
146 Execution Time 0.04479551315307617s
147

PROBLEMS 12 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 5 COMMENTS powershell +
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python wordCount.py TC2.txt
lease 4
brass 4
revenues 4
targeted 4
inflation 4
chain 4
holders 4
amongst 4
monaco 4
filme 4
```

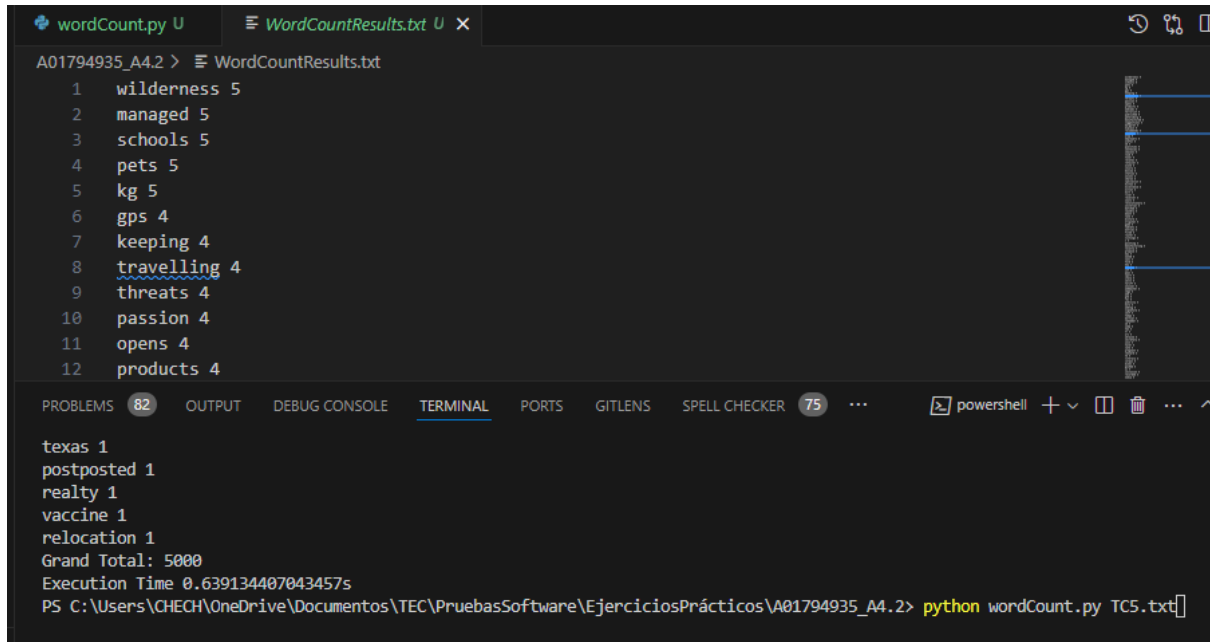


```
wordCount.py U WordCountResults.txt X
A01794935_A4.2 > WordCountResults.txt
474 cutting 1
475 clocks 1
476 infrared 1
477 cowboy 1
478 hormone 1
479 windsor 1
480 census 1
481 uc 1
482 declined 1
483 index 1
484 equipped 1
485 src 1
486 gradually 1
487 placing 1
488 Grand Total: 500
489 Execution Time 0.08108663558959961s
490

PROBLEMS 15 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 8 COMMENTS powershell +
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python wordCount.py TC3.txt
notice 3
flood 2
pottery 2
charity 2
suggestion 2
pairs 2
blues 2
pipe 2
thumb 2
reveals 2
999
```

```
wordCount.py U WordCountResults.txt X
A01794935_A4.2 > WordCountResults.txt
936 powerful 1
937 was 1
938 computing 1
939 cells 1
940 contained 1
941 replaced 1
942 calling 1
943 mailman 1
944 extent 1
945 corpus 1
946 sv 1
947 wishlist 1
948 expired 1
949 circular 1
950 Grand Total: 1000
951 Execution Time 0.15834426879882812s
952

PROBLEMS 27 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 20 COMMENTS powershell +
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python wordCount.py TC4.txt
started 3
literally 2
ringtone 2
za 2
reached 2
crazy 2
javascript 2
annual 2
shown 2
supplier 2
```



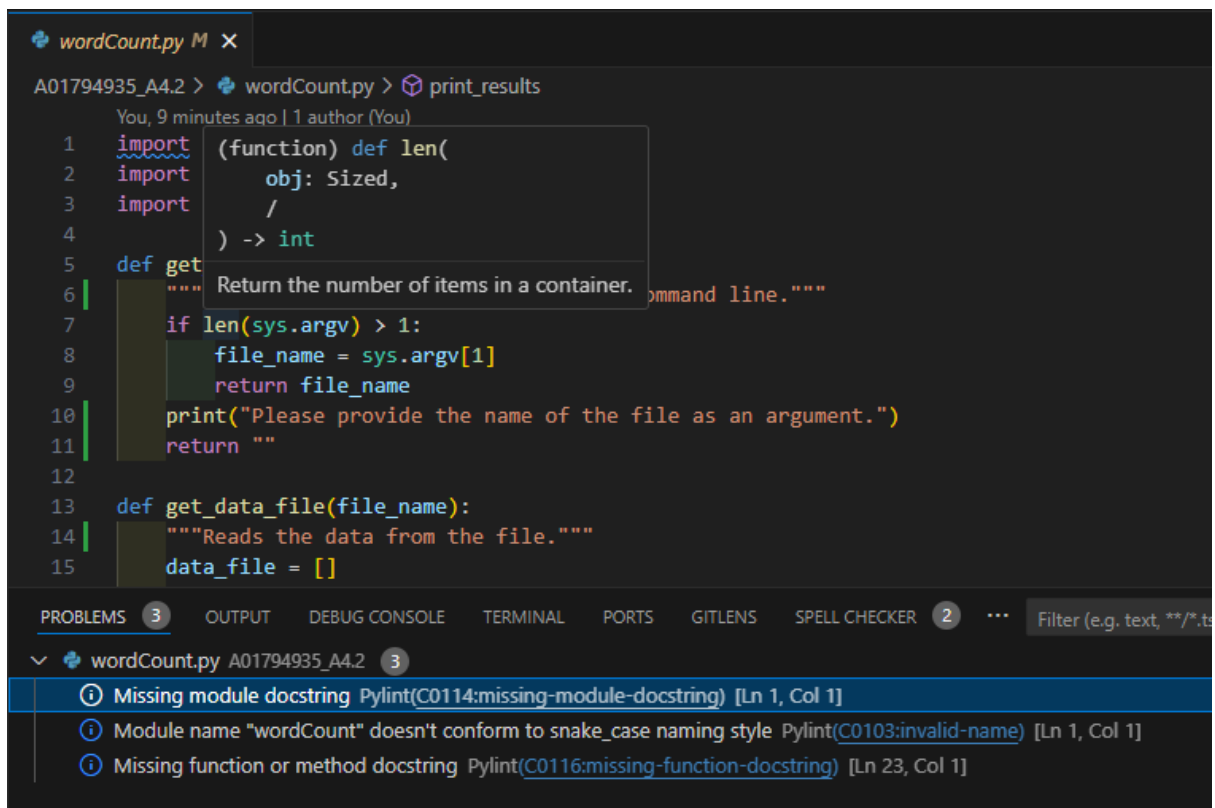
```

A01794935_A4.2 > WordCountResults.txt
1 wilderness 5
2 managed 5
3 schools 5
4 pets 5
5 kg 5
6 gps 4
7 keeping 4
8 travelling 4
9 threats 4
10 passion 4
11 opens 4
12 products 4

texas 1
postposted 1
realty 1
vaccine 1
relocation 1
Grand Total: 5000
Execution Time 0.639134407043457s
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python wordCount.py TC5.txt

```

- Pylint



```

wordCount.py M X
A01794935_A4.2 > wordCount.py > print_results
You, 9 minutes ago | 1 author (You)
1 import sys
2 import os
3 import argparse
4
5 def get_data_file(file_name):
6     """Returns the number of items in a container. command line."""
7     if len(sys.argv) > 1:
8         file_name = sys.argv[1]
9         return file_name
10    print("Please provide the name of the file as an argument.")
11    return ""
12
13 def get_data_file(file_name):
14     """Reads the data from the file."""
15     data_file = []

```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 2 Filter (e.g. text, \*\*/\*.t)

- ❖ Missing module docstring Pylint(C0114:missing-module-docstring) [Ln 1, Col 1]
- ❖ Module name "wordCount" doesn't conform to snake\_case naming style Pylint(C0103:invalid-name) [Ln 1, Col 1]
- ❖ Missing function or method docstring Pylint(C0116:missing-function-docstring) [Ln 23, Col 1]

It was necessary to change the file name because don't compliance with the snake\_case naming style.

```
word_count.py U X
A01794935_A4.2 > word_count.py > main

56
57 def main():
58     """Principal Main Compute Statistics Function."""
59     start_time = time.time()
60     file_prefix = "ArchivosApoyo/P3/"
61     file_name = get_name_file()
62     with open ("ConversionResults.txt", "w", encoding="utf-8") as file_write:
63         if file_name != "":
64             data_file = get_data_file(file_prefix + file_name)
65             results, total = count_words(data_file)
66             print_results(results, total, file_write)
67         end_time = time.time()
68         string_time = "Execution Time " + str(end_time - start_time) + "s"
69         print(string_time)
70         file_write.write(string_time + "\n")
71         file_write.close()

PRO Focus folder in explorer (ctrl + click) TERMINAL PORTS GITLENS SPELL CHECKER 2 COMMENTS powershell
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> pylint word_count.py

-----
Your code has been rated at 10.00/10 (previous run: 9.82/10, +0.18)
```

The code is executed successfully.

```
word_count.py U X
A01794935_A4.2 > word_count.py > main

56
57 def main():
58     """Principal Main Compute Statistics Function."""
59     start_time = time.time()
60     file_prefix = "ArchivosApoyo/P3/"
61     file_name = get_name_file()
62     with open ("ConversionResults.txt", "w", encoding="utf-8") as file_write:
63         if file_name != "":
64             data_file = get_data_file(file_prefix + file_name)
65             results, total = count_words(data_file)
66             print_results(results, total, file_write)
67         end_time = time.time()
68         string_time = "Execution Time " + str(end_time - start_time) + "s"
69         print(string_time)
70         file_write.write(string_time + "\n")
71         file_write.close()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 2 COMMENTS powershell +
PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> pylint word_count.py

-----
Your code has been rated at 10.00/10 (previous run: 9.82/10, +0.18)

PS C:\Users\CHECH\OneDrive\Documentos\TEC\PruebasSoftware\EjerciciosPrácticos\A01794935_A4.2> python word_count.py TC1.txt
conservative 2
mother 1
tions 1
pin 1
sure 1
regulatory 1
shower 1
uni 1
dial 1
photography 1
buying 1
```