

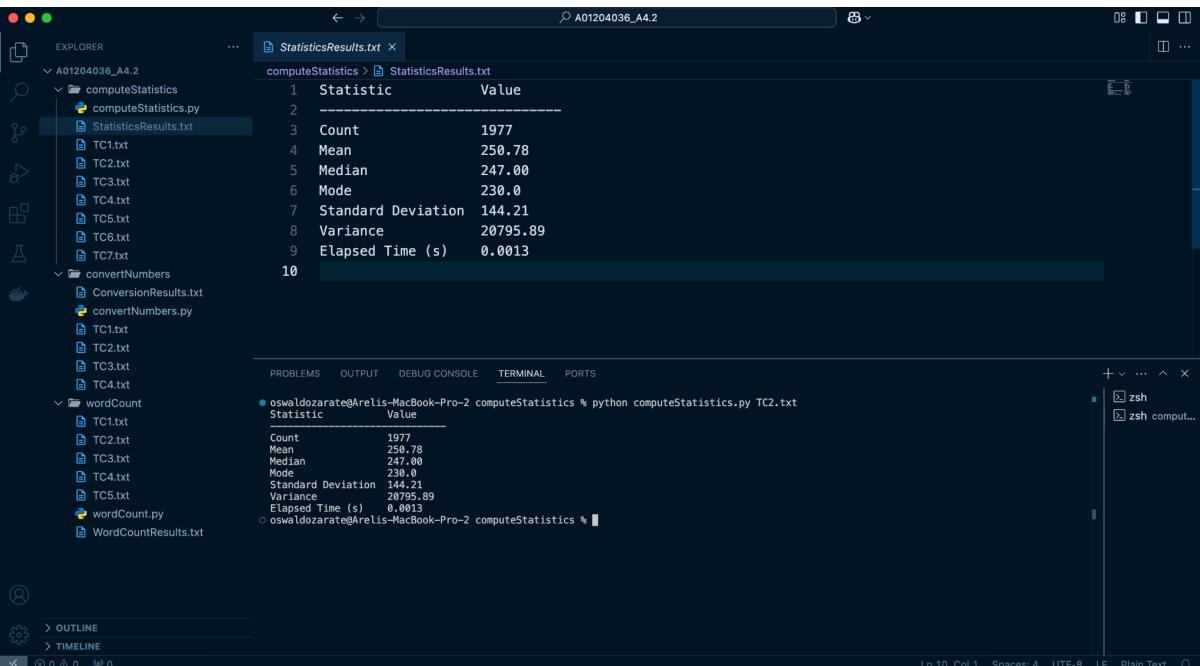
Ejecución computeStatistics



The screenshot shows the VS Code interface with the terminal tab active. The terminal window displays the output of running the `computeStatistics` script on the `TC1.txt` file. The output includes statistical measures like Count, Mean, Median, Mode, Standard Deviation, Variance, and Elapsed Time.

```
computeStatistics > StatisticsResults.txt
1 Statistic      Value
2 -----
3 Count          400
4 Mean           242.32
5 Median          239.50
6 Mode            [393.0, 170.0]
7 Standard Deviation 145.44
8 Variance        21152.80
9 Elapsed Time (s)  0.0021
10
```

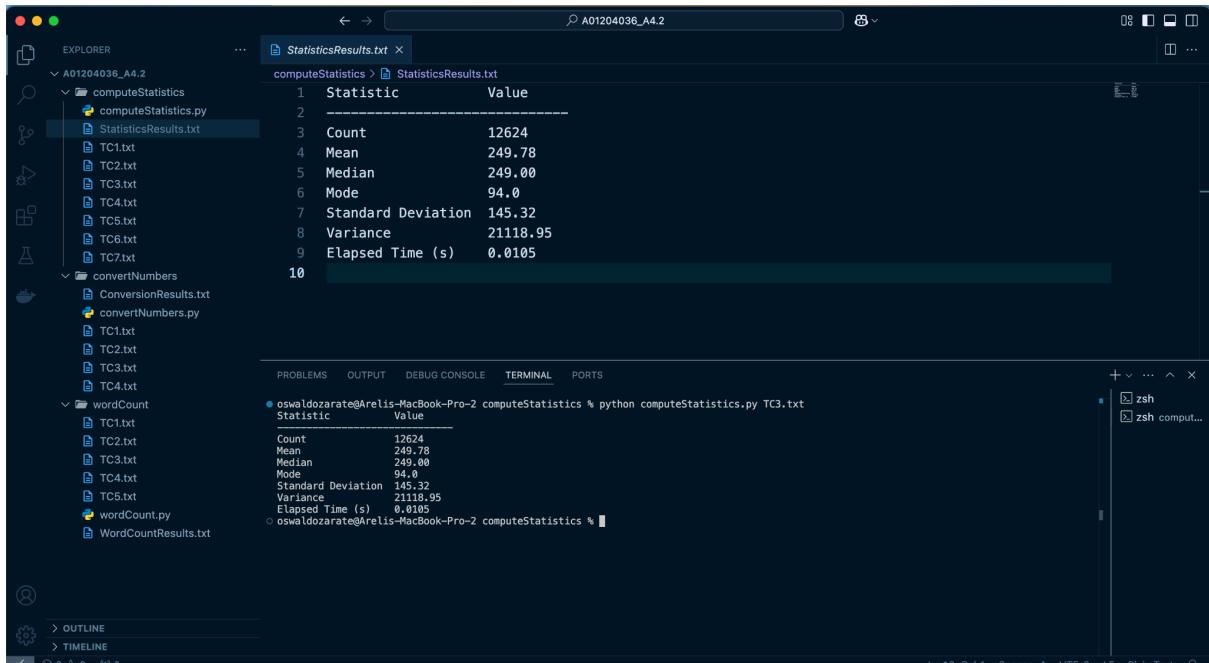
The terminal also shows the command used to run the script: `oswaldozarate@Arelis-MacBook-Pro-2 A01204036_A4.2 % cd computeStatistics`, `oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics % python computeStatistics.py TC1.txt`.



The screenshot shows the VS Code interface with the terminal tab active. The terminal window displays the output of running the `computeStatistics` script on the `TC2.txt` file. The output includes statistical measures like Count, Mean, Median, Mode, Standard Deviation, Variance, and Elapsed Time.

```
computeStatistics > StatisticsResults.txt
1 Statistic      Value
2 -----
3 Count          1977
4 Mean           250.78
5 Median          247.00
6 Mode            230.0
7 Standard Deviation 144.21
8 Variance        20795.89
9 Elapsed Time (s)  0.0013
10
```

The terminal also shows the command used to run the script: `oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics % python computeStatistics.py TC2.txt`.



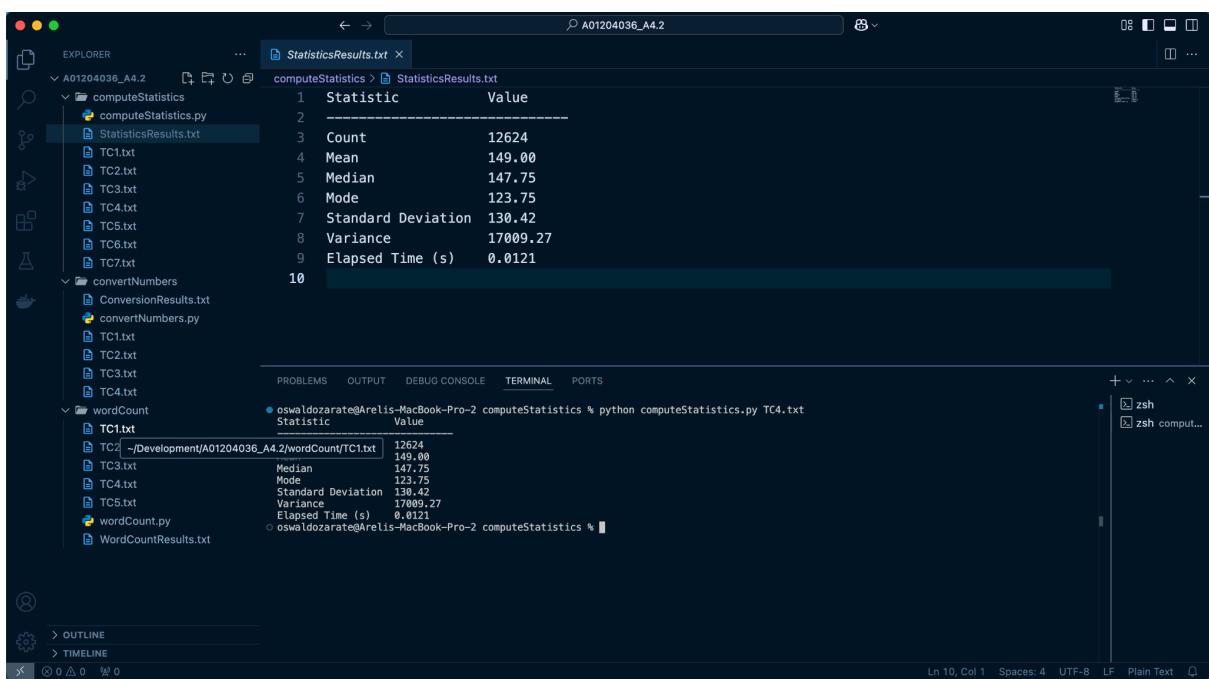
StatisticsResults.txt

```
computeStatistics > StatisticsResults.txt
1 Statistic      Value
2 -----
3 Count          12624
4 Mean           249.78
5 Median         249.00
6 Mode            94.0
7 Standard Deviation 145.32
8 Variance        21118.95
9 Elapsed Time (s)  0.0105
10
```

oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics * python computeStatistics.py TC3.txt

Statistic	Value
Count	12624
Mean	249.78
Median	249.00
Mode	94.0
Standard Deviation	145.32
Variance	21118.95
Elapsed Time (s)	0.0105

oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics *



StatisticsResults.txt

```
computeStatistics > StatisticsResults.txt
1 Statistic      Value
2 -----
3 Count          12624
4 Mean           149.00
5 Median         147.75
6 Mode            123.75
7 Standard Deviation 130.42
8 Variance        17009.27
9 Elapsed Time (s)  0.0121
10
```

oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics * python computeStatistics.py TC4.txt

Statistic	Value
Count	12624
Mean	149.00
Median	147.75
Mode	123.75
Standard Deviation	130.42
Variance	17009.27
Elapsed Time (s)	0.0121

oswaldozarate@Arelis-MacBook-Pro-2 computeStatistics *

The screenshot shows the VS Code interface with the terminal window open. The terminal command run was `python computeStatistics.py TC5.txt`. The output shows the following statistics for the file:

Statistic	Value
Count	307
Mean	241.50
Median	241.00
Mode	[393.0, 19.0, 368.0, 290.0, 56.0, 11.0, 76.0, 215.0, 64.0, 375.0, 466.0, 277.0, 268.0]
Standard Deviation	145.70
Variance	21229.17
Elapsed Time (s)	0.0012

The terminal also displays a warning about non-numeric data being ignored.

The screenshot shows the VS Code interface with the terminal window open. The terminal command run was `python computeStatistics.py TC6.txt`. The output shows the following statistics for the file:

Statistic	Value
Count	3000
Mean	187906599279774728192.00
Median	188008049965542998016.00
Mode	#N/A
Standard Deviation	107399951657667608576.00
Variance	11534749616069338239761958751339425038336.00
Elapsed Time (s)	0.0055

The terminal also displays a warning about non-numeric data being ignored.

Ejecución de computeStatistics

```

A01204036_A4.2
  |- computeStatistics
    |- StatisticsResults.txt
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
    |- TC5.txt
    |- TC6.txt
    |- TC7.txt
  |- convertNumbers
    |- ConversionResults.txt
    |- convertNumbers.py
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
  wordCount
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
    |- TC5.txt
    |- TC6.txt
    |- TC7.txt
  StatisticsResults.txt
  -----
  1 Statistic      Value
  2 -----
  3 Count          12767
  4 Mean           247467395499714904064.00
  5 Median         246640973074290016256.00
  6 Mode            #N/A
  7 Standard Deviation 144611310601233121280.00
  8 Variance        20912431153806321107417444778947884613632.00
  9 Elapsed Time (s) 0.0137
  10
  oswaldozarate@Arelis-MacBook-Pro-2:~/Desktop$ python computeStatistics.py TC7.txt
  The following lines contain non-numeric data and were ignored:
  - ABBA
  - ERROR
  Statistic      Value
  -----
  Count          12767
  Mean           247467395499714904064.00
  Median         246640973074290016256.00
  Mode            #N/A
  Standard Deviation 144611310601233121280.00
  Variance        20912431153806321107417444778947884613632.00
  Elapsed Time (s) 0.0137
  oswaldozarate@Arelis-MacBook-Pro-2:~/Desktop$ 
  
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh
zsh comput...

Ln 10, Col 1 Spaces: 4 UTF-8 LF Plain Text

Ejecución convertNumbers

Ejecución de convertNumbers

```

A01204036_A4.2
  |- computeStatistics
    |- StatisticsResults.txt
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
    |- TC5.txt
    |- TC6.txt
    |- TC7.txt
  |- convertNumbers
    |- ConversionResults.txt
    |- convertNumbers.py
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
  wordCount
    |- TC1.txt
    |- TC2.txt
    |- TC3.txt
    |- TC4.txt
    |- TC5.txt
    |- TC6.txt
    |- TC7.txt
  ConversionResults.txt
  -----
  1 Number        Binary          Hexadecimal
  2 -----
  3 6980368       1101010100001100010000 6A8310
  4 5517055       1010100010111011111111 542EFF
  5 1336159       10100011001101011111 14635F
  6 6750185       110011011111111101001 66FF9
  7 1771937       11010000100110100001 1B09A1
  8 360952        1011000000111111000 581F8
  9 5672561        1010110100011100110001 568E71
  10 916583        1101111110001100111  DFC67
  11 2700138        10100100110011011010 29336A
  12 9645053        1001001100101111111101 932BF0
  13 11811110       100100000010110110110 1205B6
  14 1492185        101101100010011011001 16C4D9
  15 4018595        111010101000110100011 3D51A3
  16 7654888        11101001100110111101000 74CDF8
  oswaldozarate@Arelis-MacBook-Pro-2:~/Desktop$ convertNumbers %
  Elapsed Time (s) 0.0012
  oswaldozarate@Arelis-MacBook-Pro-2:~/Desktop$ 
  
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh
zsh convert...

Ln 205, Col 1 Spaces: 4 UTF-8 LF Plain Text

ConversionResults.txt

	Number	Binary	Hexadecimal
1	7116776	1101100100101111101000	6C97E8
2	1666340	110010110110100100100	196D24
3	8886983	10000111001101011000111	879AC7
4	839365	11001100111011000101	CCEC5
5	924280	11000001101001111000	E1A78
6	1026310	1111010100100000110	FA906
7	1615293	1100010100101111101	18A5BD
8	1063875	100000011101111000011	103BC3
9	679035	1010010111000111011	A5C7B
10	5201970	1001111011000000110010	4F6032
11	593979	1000001000000111011	9103B
12	801371	11000011101001011011	C3A5B
13	3796878	11100111011110001110	39EF8E
14	7489201	11100100100011010110001	7246B1
15	6740000	10000000000000000000000000000000	00000000
16	0	00000000000000000000000000000000	00000000

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Elapsed Time (s) 0.0012 oswaldozarate@Relis-MacBook-Pro-2 convertNumbers %

zsh zsh convert...

ConversionResults.txt

	Number	Binary	Hexadecimal
1	-39	1111011001	FFFFFD9
2	-36	1111011100	FFFFFD0
3	8	1000	8
4	34	100010	22
5	17	10001	11
6	49	110001	31
7	5	101	5
8	39	100111	27
9	0	0	0
10	33	100001	21
11	12	1100	C
12	-6	1111111010	FFFFFFFA
13	27	11011	1B
14	-4	1111111100	FFFFFFFC
15	20	1111111110	FFFFFFFD
16	0	00000000000000000000000000000000	00000000000000000000000000000000

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Elapsed Time (s) 0.0014 oswaldozarate@Relis-MacBook-Pro-2 convertNumbers %

zsh zsh convert...

ConversionResults.txt

	Number	Binary	Hexadecimal
3	-39	1111011001	FFFFFD9
4	-36	1111011100	FFFFFD0
5	8	1000	8
6	34	100010	22
7	17	10001	11
8	49	110001	31
9	5	101	5
10	0	0	0
11	33	100001	21
12	12	1100	C
13	-6	1111111010	FFFFFFFA
14	27	11011	1B
15	-4	1111111100	FFFFFFFC
		/Development/A01204036_A4.2/convertNumbers/TC3.txt 11010	FFFFFFFDA

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh zsh convert...

Elapsed Time (s) 0.0009 oswaldozarate@Arelis-MacBook-Pro-2 convertNumbers %

Ln 43, Col 1 Spaces: 4 UTF-8 LF Plain Text

Ejecución wordCount

WordCountResults.txt

	Word	Count
3	conservative	2
4	mother	1
5	tions	1
6	pin	1
7	sure	1
8	regulatory	1
9	shower	1
10	uni	1
11	dial	1
12	photography	1
13	buying	1
14	firms	1
15	nba	1
16	father	1

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh zsh wordC...

Elapsed Time (s) 0.0009 oswaldozarate@Arelis-MacBook-Pro-2 wordCount %

Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text

The screenshot shows the VS Code interface with the title bar "A01204036_A4.2". The Explorer sidebar on the left lists a project structure under "A01204036_A4.2". The "wordCount" folder contains a file named "WordCountResults.txt". The content of this file is displayed in the main editor area:

Word	Count
lease	4
brass	4
revenues	4
targeted	4
inflation	4
chain	4
holders	4
amongst	4
monaco	4
filme	4
doc	4
Kingston	4
wood	3
pre	3

Below the table, there is a list of words and their counts:

feeding	1
rentals	1
practical	1
steve	1
serious	1
men	1
faculty	1
initiative	1
variety	1
ion	1
interface	1
remained	1
icons	1
excessive	1
jon	1

At the bottom of the editor, it says "Elapsed Time (s) 0.0021". The status bar at the bottom right shows "oswaldozarate@Arelis-MacBook-Pro-2 wordCount %".

This screenshot shows the same VS Code interface as the first one, but with different content in the "WordCountResults.txt" file. The table and word list are as follows:

Word	Count
notice	3
flood	2
pottery	2
charity	2
suggestion	2
pairs	2
blues	2
pipe	2
thumb	2
reveals	2
copy	2
hurt	2
neighbors	1
manual	1

newfoundland	1
cutting	1
clocks	1
infrared	1
copy	1
hormone	1
windsor	1
census	1
uc	1
declined	1
index	1
equipped	1
src	1
gradually	1
placing	1

At the bottom of the editor, it says "Elapsed Time (s) 0.0030". The status bar at the bottom right shows "oswaldozarate@Arelis-MacBook-Pro-2 wordCount %".

The screenshot shows the VS Code interface with the title bar "A01204036_A4.2". The Explorer sidebar on the left lists files and folders under "A01204036_A4.2", including "computeStatistics" and "convertNumbers" subfolders. The "wordCount" folder contains "TC1.txt", "TC2.txt", "TC3.txt", "TC4.txt", and "WordCountResults.txt". The terminal tab is active, displaying the command "zsh - wordCount" and the output of the word count program for "TC4.txt". The output shows words and their counts, such as "started" (3), "literally" (2), "ringtone" (2), "za" (2), "reached" (2), "crazy" (2), "javascript" (2), "annual" (2), "shown" (2), "supplier" (2), "physical" (2), "data" (2), "fought" (2), and "dramatically" (2). The status bar at the bottom indicates an elapsed time of 0.0028 seconds.

Word	Count
started	3
literally	2
ringtone	2
za	2
reached	2
crazy	2
javascript	2
annual	2
shown	2
supplier	2
physical	2
data	2
fought	2
dramatically	2

The screenshot shows the VS Code interface with the title bar "A01204036_A4.2". The Explorer sidebar on the left lists files and folders under "A01204036_A4.2", including "computeStatistics" and "convertNumbers" subfolders. The "wordCount" folder contains "TC1.txt", "TC2.txt", "TC3.txt", "TC4.txt", and "WordCountResults.txt". The terminal tab is active, displaying the command "zsh - wordCount" and the output of the word count program for "TC4.txt". The output shows words and their counts, such as "wilderness" (5), "managed" (5), "schools" (5), "pets" (5), "kg" (5), "gps" (4), "keeping" (4), "travelling" (4), "threats" (4), "passion" (4), "opens" (4), "products" (4), "webcams" (4), and "terrorist" (4). The status bar at the bottom indicates an elapsed time of 0.0071 seconds.

Word	Count
wilderness	5
managed	5
schools	5
pets	5
kg	5
gps	4
keeping	4
travelling	4
threats	4
passion	4
opens	4
products	4
webcams	4
terrorist	4