

TC1

The screenshot shows a terminal window with several command-line interactions:

- Line 121: `print(resultado_final)`
- Line 123: `# Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.`
- Line 124: `with open("StatisticsResults.txt", "w", encoding='utf-8') as out_file:`
- Line 125: `out_file.write(resultado_final)`
- Line 128: `if __name__ == "__main__":`
- Line 129: `main()`

Output:

```
Overwriting computeStatistics.py
```

Line 1: `!pip install pylint -q`
Line 2: `!pylint computeStatistics.py`

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

Line 1: `!python computeStatistics.py fileWithData.txt`

Output: Resultado de las estadísticas

Medida	Valor
Media	242.32000
Mediana	239.50000
Moda	[393.0, 170.0]
Desviación Estandar	145.44002
Varianza	21152.79960
Tiempo de ejecución	0.000306 segundos

Line 1: `!cat StatisticsResults.txt`

Output: Resultado de las estadísticas

Medida	Valor
Media	242.32000
Mediana	239.50000
Moda	[393.0, 170.0]
Desviación Estandar	145.44002
Varianza	21152.79960
Tiempo de ejecución	0.000306 segundos

Bottom right corner: Gemini 2.5 Flash

TC2

The screenshot shows a terminal window with several command-line interactions:

- Line 121: `print(resultado_final)`
- Line 123: `# Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.`
- Line 124: `with open("StatisticsResults.txt", "w", encoding='utf-8') as out_file:`
- Line 125: `out_file.write(resultado_final)`
- Line 128: `if __name__ == "__main__":`
- Line 129: `main()`

Output:

```
Overwriting computeStatistics.py
```

Line 1: `!pip install pylint -q`
Line 2: `!pylint computeStatistics.py`

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

Line 1: `!python computeStatistics.py fileWithData.txt`

Output: Resultado de las estadísticas

Medida	Valor
Media	250.78402
Mediana	247.00000
Moda	[230.0]
Desviación Estandar	144.20779
Varianza	20795.88804
Tiempo de ejecución	0.001112 segundos

Line 1: `!cat StatisticsResults.txt`

Output: Resultado de las estadísticas

Medida	Valor
Media	250.78402
Mediana	247.00000
Moda	[230.0]
Desviación Estandar	144.20779
Varianza	20795.88804
Tiempo de ejecución	0.001112 segundos

Bottom right corner: Gemini 2.5 Flash

TC3

Terminal session details:

- File: computeStatistics.py
- Line 121: print(resultado_final)
- Line 122:
- Line 123: # Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.
- Line 124: with open("StatisticsResults.txt", "w", encoding='utf-8') as out_file:
- Line 125: | out_file.write(resultado_final)
- Line 126:
- Line 127:
- Line 128: if __name__ == "__main__":
- Line 129: main()

Overwriting computeStatistics.py

```
[58] 38 1 !pip install pylint -q
2 !pylint computeStatistics.py
```

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

```
[73] 0s 1 !python computeStatistics.py fileWithData.txt
```

Resultado de las estadísticas

Media: 249.77622
Mediana: 249.00000
Moda: [94.0]
Desviación Estandar: 145.32361
Varianza: 21118.95039
Tiempo de ejecucion: 0.006417 segundos

```
[74] 0s 1 !cat StatisticsResults.txt
```

... Resultado de las estadísticas

Media: 249.77622
Mediana: 249.00000
Moda: [94.0]
Desviación Estandar: 145.32361
Varianza: 21118.95039
Tiempo de ejecucion: 0.006417 segundos

fileWithData.txt

Line	Value
12578	465
12579	170
12580	88
12581	263
12582	281
12583	474
12584	27
12585	402
12586	221
12587	420
12588	310
12589	344
12590	46
12591	361
12592	256
12593	287
12594	390
12595	113
12596	466
12597	218
12598	303
12599	151
12600	220
12601	170
12602	429
12603	190
12604	50
12605	498
12606	218
12607	228
12608	44
12609	459
12610	181
12611	194
12612	375
12613	146
12614	70
12615	479
12616	151
12617	403
12618	118
12619	310
12620	271
12621	488
12622	33
12623	1
12624	322

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TC4

Terminal session details:

- File: computeStatistics.py
- Line 121: print(resultado_final)
- Line 122:
- Line 123: # Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.
- Line 124: with open("StatisticsResults.txt", "w", encoding='utf-8') as out_file:
- Line 125: | out_file.write(resultado_final)
- Line 126:
- Line 127:
- Line 128: if __name__ == "__main__":
- Line 129: main()

Overwriting computeStatistics.py

```
[58] 38 1 !pip install pylint -q
2 !pylint computeStatistics.py
```

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

```
[75] 0s 1 !python computeStatistics.py fileWithData.txt
```

Resultado de las estadísticas

Media: 149.00267
Mediana: 147.75000
Moda: [123.75]
Desviación Estandar: 130.41959
Varianza: 17009.26822
Tiempo de ejecucion: 0.006868 segundos

```
[76] 0s 1 !cat StatisticsResults.txt
```

... Resultado de las estadísticas

Media: 149.00267
Mediana: 147.75000
Moda: [123.75]
Desviación Estandar: 130.41959
Varianza: 17009.26822
Tiempo de ejecucion: 0.006868 segundos

fileWithData.txt

Line	Value
12578	108
12579	27.75
12580	284
12581	178.5
12582	140.25
12583	82.5
12584	353.25
12585	371.25
12586	116.25
12587	192
12588	149.25
12589	-54
12590	6.75
12591	332.25
12592	220.5
12593	366
12594	24
12595	45
12596	288.75
12597	-5.25
12598	96
12599	-10.5
12600	182.25
12601	-63.75
12602	21.75
12603	344.25
12604	264
12605	-63.75
12606	274.5
12607	-70.5
12608	315.75
12609	184.5
12610	354.75
12611	-73.5
12612	233.25
12613	76.5
12614	188.75
12615	102
12616	103.5
12617	-42.75
12618	17.25
12619	304.5
12620	348
12621	290.25
12622	386
12623	135
12624	156.75

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```

[67] 121     print(resultado_final)
122
123     # Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.
124     with open("StatisticsResults.txt", "w", encoding="utf-8") as out_file:
125         out_file.write(resultado_final)
126
127
128     if __name__ == "__main__":
129         main()

Overwriting computeStatistics.py

[68] 1 !pip install pylint -q
2 !pylint computeStatistics.py

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

[77] 1 !python computeStatistics.py fileWithData.txt

Error: Dato invalido en la linea 5: 'ABA'
Error: Dato invalido en la linea 155: '23,45'
Error: Dato invalido en la linea 232: '11;54'
Error: Dato invalido en la linea 239: 'll'
Resultado de las estadisticas

Media: 241.49511
Mediana: 241.00000
Moda: [393.0, 19.0, 368.0, 290.0, 56.0, 11.0, 76.0, 215.0, 64.0, 375.0, 466.0, 277.0, 211.0, 46.0, 21229.17236
Desviación Estandar: 145.70234
Varianza: 21229.17236
Tiempo de ejecucion: 0.000374 segundos

[78] 1 !cat StatisticsResults.txt

... Resultado de las estadisticas

Media: 241.49511
Mediana: 241.00000
Moda: [393.0, 19.0, 368.0, 290.0, 56.0, 11.0, 76.0, 215.0, 64.0, 375.0, 466.0, 277.0, 211.0, 46.0, 21229.17236
Desviación Estandar: 145.70234
Varianza: 21229.17236
Tiempo de ejecucion: 0.000374 segundos

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```

The terminal session shows the execution of a Python script named computeStatistics.py. It includes code to print results to the console and write them to a file named StatisticsResults.txt. The script handles invalid input by printing errors and calculating statistical measures like mean, median, mode, standard deviation, and variance. The output is displayed in the terminal window.

TC6

```

[67] 120     # Req2. Imprimir todos los resultados en una pantalla
121     print(resultado_final)
122
123     # Req2. Los resultados generados se almacenan en un archivo llamado StatisticsResults.
124     with open("StatisticsResults.txt", "w", encoding="utf-8") as out_file:
125         out_file.write(resultado_final)
126
127
128     if __name__ == "__main__":
129         main()

Overwriting computeStatistics.py

[68] 1 !pip install pylint -q
2 !pylint computeStatistics.py

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

[79] 1 !python computeStatistics.py fileWithData.txt

Resultado de las estadisticas

Media: 187906599279774433280.00000
Mediana: 1880084965542998016.00000
Moda: [1.27620004531949e+20, 2.05822098385834e+20, 1.05867278696031e+20, 3.57674511627146e+20, 1.09153474961606934065761359798059774450688.00000
Desviación Estandar: 107399951657667608576.00000
Varianza: 1153474961606934065761359798059774450688.00000
Tiempo de ejecucion: 0.002138 segundos

[80] 1 !cat StatisticsResults.txt

... Resultado de las estadisticas

Media: 187906599279774433280.00000
Mediana: 1880084965542998016.00000
Moda: [1.27620004531949e+20, 2.05822098385834e+20, 1.05867278696031e+20, 3.57674511627146e+20, 1.09153474961606934065761359798059774450688.00000
Desviación Estandar: 107399951657667608576.00000
Varianza: 1153474961606934065761359798059774450688.00000
Tiempo de ejecucion: 0.002138 segundos

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```

This terminal session is identical to TC5, showing the execution of the same Python script and producing the same output regarding statistical calculations and file handling.

TC7

```
[67]  os
122  #os resultados generados se almacenan en un archivo llamado StatisticsResults.txt
123  w("StatisticsResults.txt", "w", encoding='utf-8') as out_file:
124      File.write(resultado_final)
126
127
128  == "__main__":
129
130  Overwriting computeStatistics.py
131
132  !pip install pylint -q
133  !pylint computeStatistics.py
134
135
136  -----
137  Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
138
139
140  1  !python computeStatistics.py fileWithData.txt
141
142  Error: Dato invalido en la linea 183: 'ABBA'
143  Error: Dato invalido en la linea 229: 'ERROR'
144  Resultado de las estadisticas
145
146  Media: 247467395499716247552.00000
147  Mediana: 246640973074290016256.00000
148  Moda: [1.57638329490099e+20, 3.56818591009357e+20, 3.66382883876642e+20, 1.41489077048921e+20, 8.73
149  Desviacion Estandar: 14461131060123285120.00000
150  Varianza: 20912431153806367046598590134856523448320.00000
151  Tiempo de ejecucion: 0.013265 segundos
152
153  1  !cat StatisticsResults.txt
154
155  ... Resultado de las estadisticas
156
157  Media: 247467395499716247552.00000
158  Mediana: 246640973074290016256.00000
159  Moda: [1.57638329490099e+20, 3.56818591009357e+20, 3.66382883876642e+20, 1.41489077048921e+20, 8.73
160  Desviacion Estandar: 14461131060123285120.00000
161  Varianza: 20912431153806367046598590134856523448320.00000
162  Tiempo de ejecucion: 0.013265 segundos
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```

fileWithData.txt

```
12723  40654312188163800000.00
12724  493319865546100000.00
12725  19997649814766300000.00
12726  32803348156458000000.00
12727  48789725134925600000.00
12728  23012209118141200000.00
12729  18783247228706100000.00
12730  36944276361033800000.00
12731  1941065171298998900000.00
12732  14033566512738300000.00
12733  23622251538868900000.00
12734  46858936414349200000.00
12735  20150585701002300000.00
12736  42546745381735300000.00
12737  20231777062134000000.00
12738  54086686560637000000.00
12739  83399636284988700000.00
12740  31847327963014800000.00
12741  13269594693087100000.00
12742  18883786286354900000.00
12743  19343238757300200000.00
12744  39636698660059500000.00
12745  56889805072374600000.00
12746  22510736018842700000.00
12747  28938478266689000000.00
12748  33411807925821500000.00
12749  46983847841358000000.00
12750  3033703900228571000000.00
12751  27260131480801700000.00
12752  32721688556000700000.00
12753  455113232841587200000.00
12754  34821086119987000000.00
12755  28411367989127400000.00
12756  2738462673837700000.00
12757  35718891085279500000.00
12758  64442556492856700000.00
12759  40057450429375900000.00
12760  12188241854361900000.00
12761  43360841476826100000.00
12762  33295815414689200000.00
12763  158837971329400000000.00
12764  89258762332887100000.00
12765  30175168482359000000.00
12766  133883376130884000000.00
12767  28375789226142000000.00
12768  25205504246477200000.00
12769  32239812504720500000.00
```