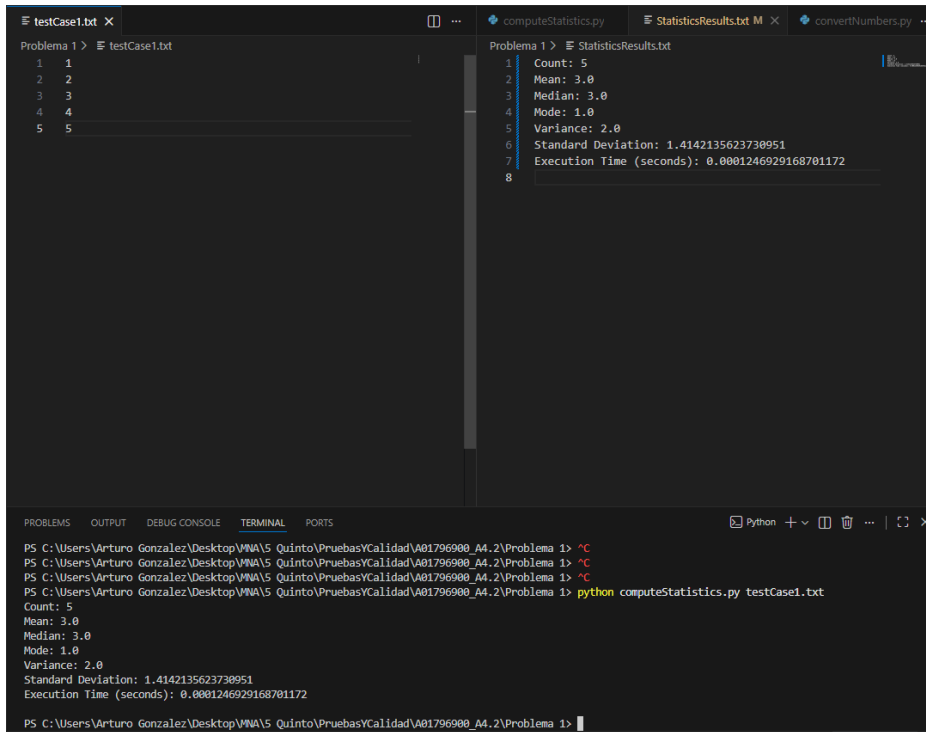


Compute Statistics

TC1



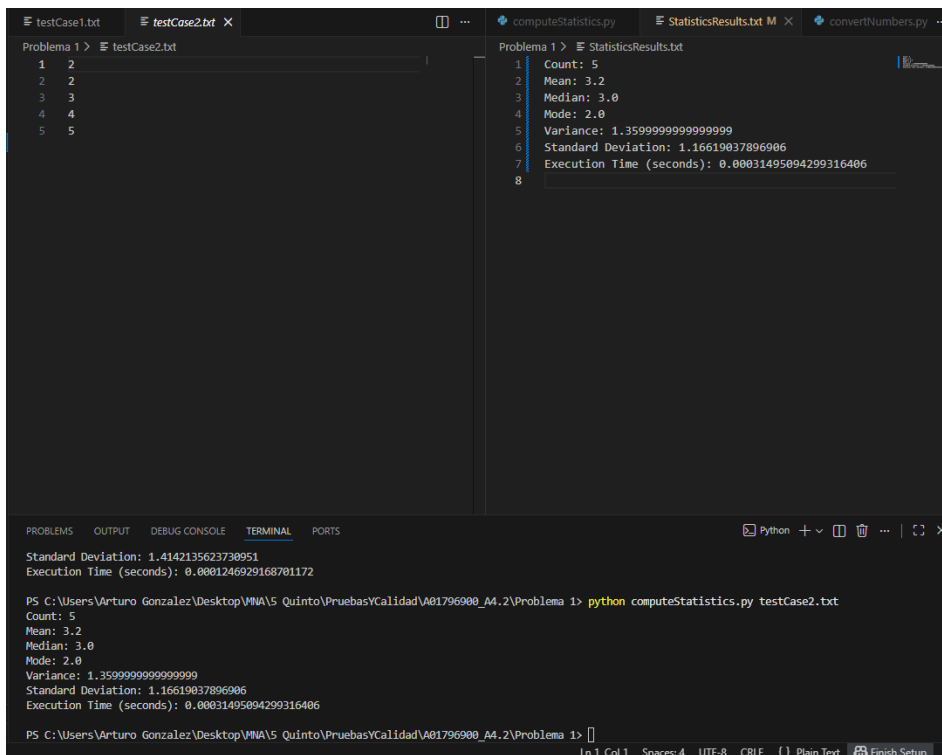
The screenshot shows an IDE with three open files: `testCase1.txt`, `computeStatistics.py`, and `StatisticsResults.txt`. The `testCase1.txt` file contains a list of five numbers: 1, 2, 3, 4, 5. The `computeStatistics.py` file contains a script that reads the numbers from `testCase1.txt` and calculates their statistics. The `StatisticsResults.txt` file shows the output of the script, which includes the count, mean, median, mode, variance, standard deviation, and execution time.

```
1 1
2 2
3 3
4 4
5 5
```

```
1 Count: 5
2 Mean: 3.0
3 Median: 3.0
4 Mode: 1.0
5 Variance: 2.0
6 Standard Deviation: 1.4142135623730951
7 Execution Time (seconds): 0.0001246929168701172
8
```

```
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> ^C
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> ^C
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> ^C
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase1.txt
Count: 5
Mean: 3.0
Median: 3.0
Mode: 1.0
Variance: 2.0
Standard Deviation: 1.4142135623730951
Execution Time (seconds): 0.0001246929168701172
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>
```

TC2



The screenshot shows an IDE with three open files: `testCase1.txt`, `testCase2.txt`, and `StatisticsResults.txt`. The `testCase2.txt` file contains a list of five numbers: 1, 2, 2, 4, 5. The `computeStatistics.py` file contains a script that reads the numbers from `testCase2.txt` and calculates their statistics. The `StatisticsResults.txt` file shows the output of the script, which includes the count, mean, median, mode, variance, standard deviation, and execution time.

```
1 1
2 2
3 2
4 4
5 5
```

```
1 Count: 5
2 Mean: 3.2
3 Median: 3.0
4 Mode: 2.0
5 Variance: 1.3599999999999999
6 Standard Deviation: 1.16619037896906
7 Execution Time (seconds): 0.00031495094299316406
8
```

```
Standard Deviation: 1.4142135623730951
Execution Time (seconds): 0.0001246929168701172
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase2.txt
Count: 5
Mean: 3.2
Median: 3.0
Mode: 2.0
Variance: 1.3599999999999999
Standard Deviation: 1.16619037896906
Execution Time (seconds): 0.00031495094299316406
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>
```

TC3

The screenshot shows an IDE with the following components:

- File Explorer:** Shows 'testCase1.txt', 'testCase3.txt', 'computeStatistics.py', 'StatisticsResults.txt', and 'convertNumbers.py'.
- Editor:**
 - testCase3.txt:**

```
1 1.5
2 2.5
3 3.5
4 4.5
```
 - StatisticsResults.txt:**

```
1 Count: 4
2 Mean: 3.0
3 Median: 3.0
4 Mode: 1.5
5 Variance: 1.25
6 Standard Deviation: 1.118033988749895
7 Execution Time (seconds): 0.00030493736267089844
8
```
- Terminal:**

```
Standard Deviation: 1.16619037896906
Execution Time (seconds): 0.00031495094299316406

PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase3.txt
Count: 4
Mean: 3.0
Median: 3.0
Mode: 1.5
Variance: 1.25
Standard Deviation: 1.118033988749895
Execution Time (seconds): 0.00030493736267089844

PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>
```

TC4

The screenshot shows an IDE with the following components:

- File Explorer:** Shows 'testCase1.txt', 'testCase4.txt', 'computeStatistics.py', 'StatisticsResults.txt', and 'convertNumbers.py'.
- Editor:**
 - testCase4.txt:**

```
1 10
2 abc
3 20
4 ?
5 30
```
 - StatisticsResults.txt:**

```
1 Count: 3
2 Mean: 20.0
3 Median: 20.0
4 Mode: 10.0
5 Variance: 66.66666666666667
6 Standard Deviation: 8.16496580927726
7 Execution Time (seconds): 0.00025081634521484375
8
```
- Terminal:**

```
PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase4.txt
Invalid data at line 2: 'abc'
Invalid data at line 4: '?'
Count: 3
Mean: 20.0
Median: 20.0
Mode: 10.0
Variance: 66.66666666666667
Standard Deviation: 8.16496580927726
Execution Time (seconds): 0.00025081634521484375

PS C:\Users\Arturo Gonzalez\Desktop\WNA\S Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>
```

TC5

```

testCase1.txt  testCase5.txt  ...
Problema 1 > testCase5.txt
1 4

computeStatistics.py  StatisticsResults.txt M  convertNumbers.py ...
Problema 1 > StatisticsResults.txt
1 Count: 1
2 Mean: 4.0
3 Median: 4.0
4 Mode: 4.0
5 Variance: 0.0
6 Standard Deviation: 0.0
7 Execution Time (seconds): 0.00015306472778320312
8

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Standard Deviation: 8.16496580927726
Execution Time (seconds): 0.00025081634521484375

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase5.txt
Count: 1
Mean: 4.0
Median: 4.0
Mode: 4.0
Variance: 0.0
Standard Deviation: 0.0
Execution Time (seconds): 0.00015306472778320312

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>

```

TC6

```

testCase1.txt  testCase6.txt  ...
Problema 1 > testCase6.txt
1 4
2 3
3 6
4 7
5 8
6 9
7 0
8 2
9 1
10 5
11 4
12 3
13 6
14 7
15 8
16 9
17 0
18 2
19 1
20 5
21 4
22 3
23 6
24 7
25 8
26 9
27 0
28 7

computeStatistics.py  StatisticsResults.txt M  convertNumbers.py ...
Problema 1 > StatisticsResults.txt
1 Count: 110
2 Mean: 4.5
3 Median: 4.5
4 Mode: 4.0
5 Variance: 8.25
6 Standard Deviation: 2.8722813232690143
7 Execution Time (seconds): 0.0001747608184814453
8

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Standard Deviation: 0.0
Execution Time (seconds): 0.00015306472778320312

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1> python computeStatistics.py testCase6.txt
Count: 110
Mean: 4.5
Median: 4.5
Mode: 4.0
Variance: 8.25
Standard Deviation: 2.8722813232690143
Execution Time (seconds): 0.0001747608184814453

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 1>

```

TC7

The screenshot shows a VS Code editor with two tabs: 'testCase7.txt' and 'StatisticsResults.txt M'. The 'testCase7.txt' tab is active, displaying a list of numbers: 10, 20, and 30. The 'StatisticsResults.txt' tab shows the output of a Python script, which includes the count (3), mean (20.0), median (20.0), mode (10.0), variance (66.66666666666667), standard deviation (8.16496580927726), and execution time (0.00013780593872070312 seconds). Below the editor, the terminal window shows the command 'python computeStatistics.py testCase7.txt' and the same output as the 'StatisticsResults.txt' file.

TC8

The screenshot shows a code editor with two files open: `testCase8.txt` and `StatisticsResults.txt`. The `testCase8.txt` file contains the following text:

```
1 abc
2 de
3 fghi
4 jkl
5
6 mnñ
```

The `StatisticsResults.txt` file contains the following text:

```
1
2
```

The terminal output shows the execution of a Python script named `computeStatistics.py` with the command `python computeStatistics.py testCase8.txt`. The output is as follows:

```
Mode: 10.0
Variance: 66.66666666666667
Standard Deviation: 8.16496580927726
Execution Time (seconds): 0.00013780593872078312
```

Below the terminal output, the command prompt shows the execution of the script again:

```
PS C:\Users\Arturo Gonzalez\Desktop\WMA\5 Quinto\PruebasYCalidad\A01796980_A4.2\Problema 1> python computeStatistics.py testCase8.txt
```

The output of the script is:

```
Invalid data at line 1: 'abc'
Invalid data at line 2: 'de'
Invalid data at line 3: 'fghi'
Invalid data at line 4: 'jkl'
Invalid data at line 6: 'mnñ'
No valid numeric data found.
```

Convert Numbers

TC1

```
testCase1.txt Problema 1  testCase8.txt  testCase1.txt Problema 2  ...  ConversionResults.txt M  X  convertNumbers.py  wordCou  ...  
Problema 2 >  testCase1.txt  
1  1  
2  2  
3  10  
4  15  
Problema 2 >  ConversionResults.txt  
1  Decimal: 1 | Binary: 1 | Hexadecimal: 1  
2  Decimal: 2 | Binary: 10 | Hexadecimal: 2  
3  Decimal: 10 | Binary: 1010 | Hexadecimal: A  
4  Decimal: 15 | Binary: 1111 | Hexadecimal: F  
5  
6  Execution Time (seconds): 0.00013971328735351562  
7  
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  
Decimal: 15 | Binary: 1111 | Hexadecimal: F  
Execution Time (seconds): 0.00014519691467285156  
PS C:\Users\Arturo Gonzalez\Desktop\WMA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2> python convertNumbers.py testCase1.txt  
Decimal: 1 | Binary: 1 | Hexadecimal: 1  
Decimal: 2 | Binary: 10 | Hexadecimal: 2  
Decimal: 10 | Binary: 1010 | Hexadecimal: A  
Decimal: 15 | Binary: 1111 | Hexadecimal: F  
Execution Time (seconds): 0.00013971328735351562  
PS C:\Users\Arturo Gonzalez\Desktop\WMA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2>
```

TC2

The screenshot shows a VS Code editor with several tabs open: `testCase8.txt`, `testCase1.txt`, `Problema 2`, `testCase2.txt`, `ConversionResults.txt`, `convertNumbers.py`, and `wordCount.py`. The `ConversionResults.txt` tab is active, displaying the following content:

```
1 | Decimal: 0 | Binary: 0 | Hexadecimal: 0
2 |
3 | Execution Time (seconds): 0.0001342296600341797
4 |
```

The bottom panel shows the `TERMINAL` tab with the following output:

```
Decimal: 1 | Binary: 1 | Hexadecimal: 1
Decimal: 2 | Binary: 10 | Hexadecimal: 2
Decimal: 10 | Binary: 1010 | Hexadecimal: A
Decimal: 15 | Binary: 1111 | Hexadecimal: F

Execution Time (seconds): 0.00013971328735351562

PS C:\Users\Arturo Gonzalez\Desktop\WNA\5_Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2> python convertNumbers.py testCase2.txt
Decimal: 0 | Binary: 0 | Hexadecimal: 0

Execution Time (seconds): 0.0001342296600341797

PS C:\Users\Arturo Gonzalez\Desktop\WNA\5_Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2>
```

TC3

The screenshot shows a code editor with two tabs: `testCase3.txt` and `ConversionResults.txt`. The `testCase3.txt` tab contains the following text:

```
1 0-1
2 -10
3 -255
```

The `ConversionResults.txt` tab contains the following text:

```
1 Decimal: -10 | Binary: -1010 | Hexadecimal: -A
2 Decimal: -255 | Binary: -11111111 | Hexadecimal: -FF
3
4 Execution Time (seconds): 0.0002033710479736328
5
```

Below the editor, the terminal output shows the execution of the `convertNumbers.py` script for `testCase3.txt`:

```
PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2> python convertNumbers.py testCase3.txt
Invalid data at line 1: '0-1'
Decimal: -10 | Binary: -1010 | Hexadecimal: -A
Decimal: -255 | Binary: -11111111 | Hexadecimal: -FF
Execution Time (seconds): 0.0002033710479736328
```

TC4

The screenshot shows a code editor with two tabs: `testCase4.txt` and `ConversionResults.txt`. The `testCase4.txt` tab contains the following text:

```
1 10
2 abc
3 20
4 ?
5 30
```

The `ConversionResults.txt` tab contains the following text:

```
1 Decimal: 10 | Binary: 1010 | Hexadecimal: A
2 Decimal: 20 | Binary: 10100 | Hexadecimal: 14
3 Decimal: 30 | Binary: 11110 | Hexadecimal: 1E
4
5 Execution Time (seconds): 0.00028324127197265625
6
```

Below the editor, the terminal output shows the execution of the `convertNumbers.py` script for `testCase4.txt`:

```
PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2> python convertNumbers.py testCase4.txt
Invalid data at line 2: 'abc'
Invalid data at line 4: '?'
Decimal: 10 | Binary: 1010 | Hexadecimal: A
Decimal: 20 | Binary: 10100 | Hexadecimal: 14
Decimal: 30 | Binary: 11110 | Hexadecimal: 1E
Execution Time (seconds): 0.00028324127197265625
```

TC5

```

testCase3.txt  testCase4.txt  testCase5.txt x
Problema 2 > testCase5.txt
1 734
2 189
3 923
4 456
5 217
6 851
7 394
8 628
9 142
10 965
11 378
12 512
13 839
14 267
15 704
16 156
17 983
18 425
19 691
20 238
21 576
22 813
23 349
24 662
25 104
26 897
27 531
28 778

ConversionResults.txt M x  convertNumbers.py  wordCount.py  testCase1 ...
Problema 2 > ConversionResults.txt
1 Decimal: 734 | Binary: 1011011110 | Hexadecimal: 2DE
2 Decimal: 189 | Binary: 10111101 | Hexadecimal: BD
3 Decimal: 923 | Binary: 1110011011 | Hexadecimal: 398
4 Decimal: 456 | Binary: 111001000 | Hexadecimal: 1C8
5 Decimal: 217 | Binary: 11011001 | Hexadecimal: D9
6 Decimal: 851 | Binary: 1101010011 | Hexadecimal: 353
7 Decimal: 394 | Binary: 110001010 | Hexadecimal: 18A
8 Decimal: 628 | Binary: 1001110100 | Hexadecimal: 274
9 Decimal: 142 | Binary: 10001110 | Hexadecimal: 8E
10 Decimal: 965 | Binary: 1111000101 | Hexadecimal: 3C5
11 Decimal: 378 | Binary: 101111010 | Hexadecimal: 17A
12 Decimal: 512 | Binary: 1000000000 | Hexadecimal: 200
13 Decimal: 839 | Binary: 1101000111 | Hexadecimal: 347
14 Decimal: 267 | Binary: 100001011 | Hexadecimal: 10B
15 Decimal: 704 | Binary: 1011000000 | Hexadecimal: 2C0
16 Decimal: 156 | Binary: 10011100 | Hexadecimal: 9C
17 Decimal: 983 | Binary: 1111010111 | Hexadecimal: 3D7
18 Decimal: 425 | Binary: 110101001 | Hexadecimal: 1A9
19 Decimal: 691 | Binary: 101010011 | Hexadecimal: 2B3
20 Decimal: 238 | Binary: 11101110 | Hexadecimal: EE
21 Decimal: 576 | Binary: 1001000000 | Hexadecimal: 240
22 Decimal: 813 | Binary: 1100101101 | Hexadecimal: 32D
23 Decimal: 349 | Binary: 101011101 | Hexadecimal: 15D
24 Decimal: 662 | Binary: 1010010110 | Hexadecimal: 296
25 Decimal: 104 | Binary: 1101000 | Hexadecimal: 68
26 Decimal: 897 | Binary: 1110000001 | Hexadecimal: 381
27 Decimal: 531 | Binary: 1000010011 | Hexadecimal: 213
28 Decimal: 778 | Binary: 1100001010 | Hexadecimal: 30A

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Decimal: 946 | Binary: 1110110010 | Hexadecimal: 3B2
Decimal: 391 | Binary: 110000111 | Hexadecimal: 187
Decimal: 726 | Binary: 1011010110 | Hexadecimal: 2D6
Decimal: 161 | Binary: 10100001 | Hexadecimal: A1
Decimal: 506 | Binary: 111111010 | Hexadecimal: 1FA
Decimal: 851 | Binary: 1101010011 | Hexadecimal: 353
Decimal: 396 | Binary: 110001100 | Hexadecimal: 18C
Decimal: 631 | Binary: 1001110111 | Hexadecimal: 277
Decimal: 966 | Binary: 1111000110 | Hexadecimal: 3C6

Execution Time (seconds): 0.0009701251983642578

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2>

```

TC6

```

testCase4.txt  testCase5.txt  testCase6.txt x
Problema 2 > testCase6.txt
1
2 5
3
4 10
5
6

ConversionResults.txt M x  convertNumbers.py  wordCount.py  testCase1 ...
Problema 2 > ConversionResults.txt
1 Decimal: 5 | Binary: 101 | Hexadecimal: 5
2 Decimal: 10 | Binary: 1010 | Hexadecimal: A
3
4 Execution Time (seconds): 0.0001628398895263672
5

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
Decimal: 396 | Binary: 110001100 | Hexadecimal: 18C
Decimal: 631 | Binary: 1001110111 | Hexadecimal: 277
Decimal: 966 | Binary: 1111000110 | Hexadecimal: 3C6

Execution Time (seconds): 0.0009701251983642578

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2> python convertNumbers.py testCase6.txt
Decimal: 5 | Binary: 101 | Hexadecimal: 5
Decimal: 10 | Binary: 1010 | Hexadecimal: A

Execution Time (seconds): 0.0001628398895263672

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 2>

```

TC7

The image shows a code editor with two files open: `testCase6.txt` and `testCase7.txt`. The terminal output shows the execution of `convertNumbers.py` for both cases.

testCase6.txt

```
Problema 2 > testCase6.txt
1 7
```

testCase7.txt

```
Problema 2 > testCase7.txt
1 7
```

ConversionResults.txt

```
1 Decimal: 7 | Binary: 111 | Hexadecimal: 7
2
3 Execution Time (seconds): 0.00013637542724609375
4
```

Terminal Output

```
PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_M4.2\Problema 2> python convertNumbers.py testCase6.txt
Decimal: 5 | Binary: 101 | Hexadecimal: 5
Decimal: 10 | Binary: 1010 | Hexadecimal: A

Execution Time (seconds): 0.0001628398895263672

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_M4.2\Problema 2> python convertNumbers.py testCase7.txt
Decimal: 7 | Binary: 111 | Hexadecimal: 7

Execution Time (seconds): 0.00013637542724609375

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_M4.2\Problema 2>
```

Word Count

TC1

The screenshot shows the Visual Studio Code editor interface. The top toolbar includes icons for Explorer, Search, Run and Debug, Extensions, and Settings. Below the toolbar are several tabs: "testCase7.txt", "testCase1.txt", "ConversionResults.txt M", "WordCountResults.txt M", and "convertNumbers.py".

The "testCase1.txt" tab is active, displaying the following code:

```
Problema 3 > testCase1.txt  
1 actividad semana cuatro
```

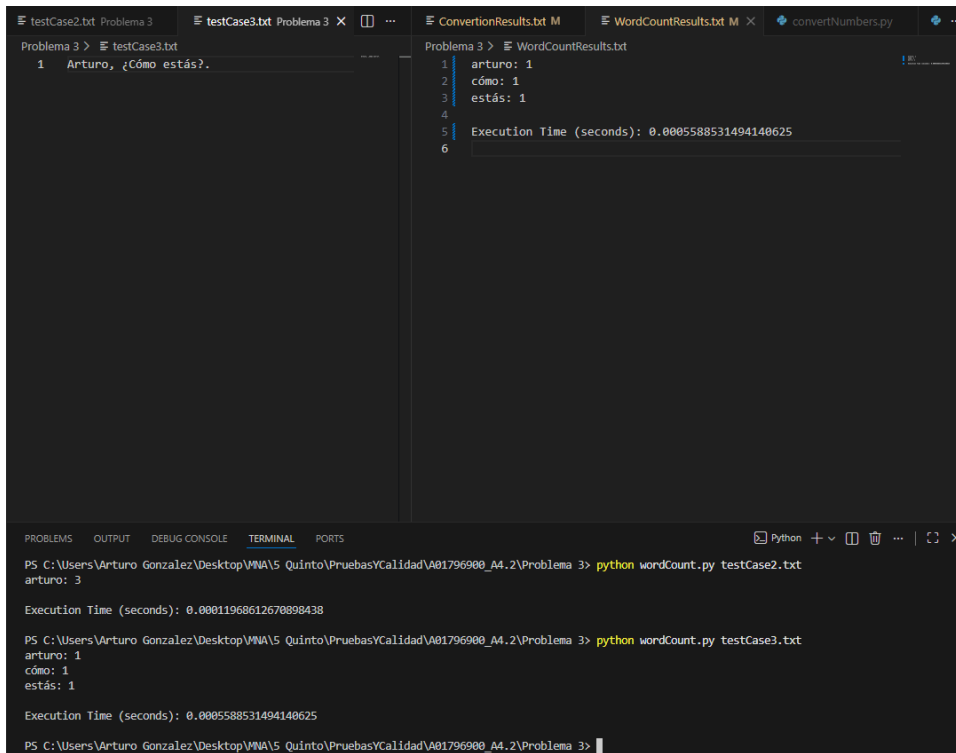
The "WordCountResults.txt" tab is also visible, displaying the following code:

```
Problema 3 > WordCountResults.txt  
1 actividad: 1  
2 semana: 1  
3 cuatro: 1  
4  
5 Execution Time (seconds): 0.00012254714965820312  
6
```

TC2

The screenshot shows a VS Code editor with a dark theme. The top bar displays several open files: `testCase1.txt`, `testCase2.txt`, `ConversionResults.txt`, `WordCountResults.txt`, and `convertNumbers.py`. The `testCase2.txt` file is active, showing the text: `1 Arturo arturo ARTURO`. The `WordCountResults.txt` file is also visible, showing the output of a word count script: `1 arturo: 3`, `2`, `3 Execution Time (seconds): 0.00011968612670898438`, and `4`. The bottom panel shows the `TERMINAL` output, displaying the command `python wordCount.py testCase1.txt` and its output: `actividad: 1`, `semana: 1`, `cuatro: 1`, and `Execution Time (seconds): 0.00012254714965820312`. The command `python wordCount.py testCase2.txt` is also shown, with its output: `arturo: 3` and `Execution Time (seconds): 0.00011968612670898438`.

TC3



```
testCase2.txt Problema 3
1 Arturo, ¿Cómo estás?

testCase3.txt Problema 3
1 Arturo, ¿Cómo estás?

ConversionResults.txt M
WordCountResults.txt M
convertNumbers.py

Problema 3 > WordCountResults.txt
1 arturo: 1
2 cómo: 1
3 estás: 1
4
5 Execution Time (seconds): 0.0005588531494140625
6

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3> python wordCount.py testCase2.txt
arturo: 3

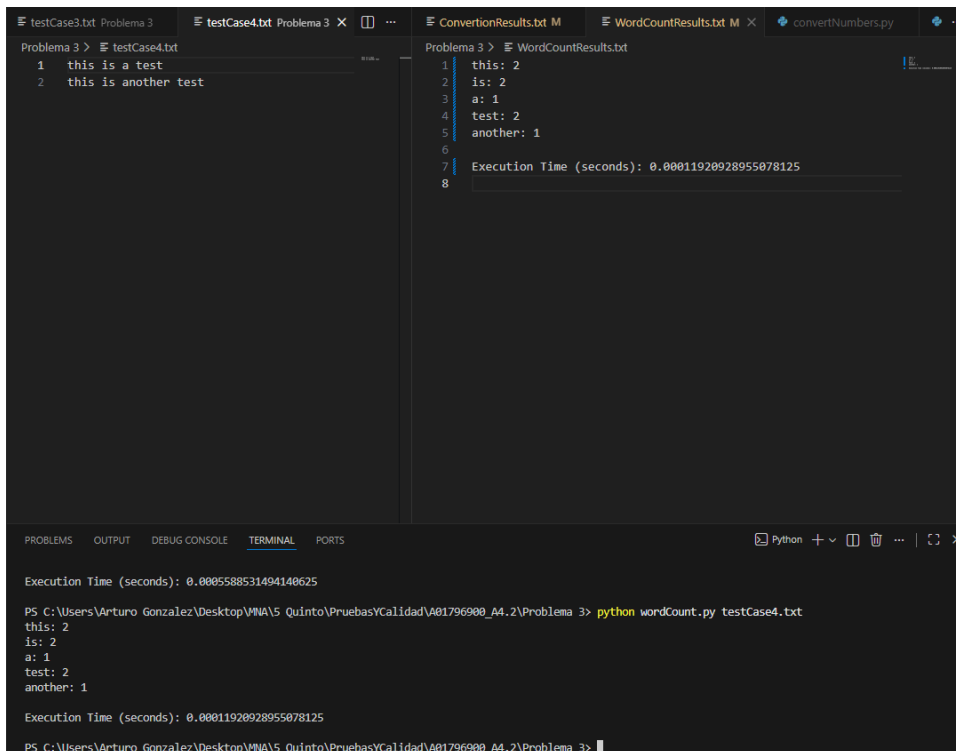
Execution Time (seconds): 0.00011968612670898438

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3> python wordCount.py testCase3.txt
arturo: 1
cómo: 1
estás: 1

Execution Time (seconds): 0.0005588531494140625

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3>
```

TC4



```
testCase3.txt Problema 3
1 this is a test
2 this is another test

testCase4.txt Problema 3
1 this is a test
2 this is another test

ConversionResults.txt M
WordCountResults.txt M
convertNumbers.py

Problema 3 > WordCountResults.txt
1 this: 2
2 is: 2
3 a: 1
4 test: 2
5 another: 1
6
7 Execution Time (seconds): 0.00011920928955078125
8

Execution Time (seconds): 0.0005588531494140625

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3> python wordCount.py testCase4.txt
this: 2
is: 2
a: 1
test: 2
another: 1

Execution Time (seconds): 0.00011920928955078125

PS C:\Users\Arturo Gonzalez\Desktop\VNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3>
```

TC5

The screenshot shows a VS Code editor with the following files open: `testCase4.txt`, `testCase5.txt`, `ConversionResults.txt`, `WordCountResults.txt`, and `convertNumbers.py`. The `testCase5.txt` file contains the following text:

```
1 hello ### world !!!
```

The `WordCountResults.txt` file shows the output of the script:

```
1 hello: 1
2 world: 1
3
4 Execution Time (seconds): 0.0002427169494628906
5
```

The terminal window at the bottom shows the command `python wordCount.py testCase5.txt` being executed, with the following output:

```
another: 1
Execution Time (seconds): 0.00011920928955878125
PS C:\Users\Arturo Gonzalez\Desktop\VMA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3> python wordCount.py testCase5.txt
Invalid word at line 1: '###'
Invalid word at line 1: '!!!'
hello: 1
world: 1
Execution Time (seconds): 0.0002427169494628906
PS C:\Users\Arturo Gonzalez\Desktop\VMA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3>
```

TC6

The screenshot shows a VS Code editor with the following files open: `testCase5.txt`, `testCase6.txt`, `ConversionResults.txt`, `WordCountResults.txt`, and `convertNumbers.py`. The `testCase6.txt` file contains the following text:

```
1 La Rebelión de la Granja: Una Fábula
2
3 En la Granja Manor, los animales sufrían b
4
5 Los animales establecieron siete mandamien
6
7 Así comenzó la corrupción del ideal. Napol
8
9 Los animales trabajaban más que bajo Jones
10
11 La farsa culminó cuando los cerdos comenza
12
13 Los vecinos humanos, primero enemigos, aho
14
15 La fábula revela cómo las revoluciones pue
16
17 La Granja Animal terminó igual que la Gran
```

The `WordCountResults.txt` file shows the output of the script:

```
1 la: 18
2 rebelión: 2
3 de: 5
4 granja: 5
5 una: 5
6 fábula: 3
7 en: 7
8 manor: 2
9 los: 22
10 animales: 10
11 sufrían: 1
12 bajo: 2
13 el: 12
14 yugo: 1
15 del: 3
16 sr: 1
17 jones: 4
18 un: 6
19 hombre: 1
20 negligente: 1
21 que: 14
22 explotaba: 1
23 sin: 2
24 piedad: 1
25 viejo: 1
26 cerdo: 3
27 mayor: 1
28 antes: 2
```

The terminal window at the bottom shows the command `python wordCount.py testCase6.txt` being executed, with the following output:

```
advierte: 1
corrompe: 1
deben: 1
vigilarse: 1
si: 1
mismas: 1
convertirse: 1
juran: 1
destruir: 1
Execution Time (seconds): 0.0007610321044921875
PS C:\Users\Arturo Gonzalez\Desktop\VMA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3>
```

TC7

The image shows a PyCharm IDE with two main panes. The top pane displays a Python script named `convertNumbers.py` with the following content:

```
1 respira: 1
2
3 Execution Time (seconds): 0.00011467933654785156
4
```

The bottom pane shows the terminal output, which includes the command `python wordCount.py testCase7.txt` and its output:

```
mismas: 1
convertirse: 1
juraron: 1
destruir: 1

Execution Time (seconds): 0.0007610321044921875

PS C:\Users\Arturo Gonzalez\Desktop\WNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3> python wordCount.py testCase7.txt
respira: 1

Execution Time (seconds): 0.00011467933654785156

PS C:\Users\Arturo Gonzalez\Desktop\WNA\5 Quinto\PruebasYCalidad\A01796900_A4.2\Problema 3>
```