P2:

RESULTS:

```
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> cd C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC1.txt
ITEM    VALUE    BIN         HEX
1       6980368  11010101000001100010000 6A8310
2       5517055  10101000010110111111111 542EFF
3       1336159  101000110001101011111    14635F
4       6750185  11001101111111111101001 66FFE9
5       1771937  110110000100110100001    1B09A1
6       360952   10110000000111111000      581F8
7       5672561  10101101000111001110001 568E71
8       916583   11011111110001100111     DFC67
9       2700138  1010010011001101101010   29336A
10      9645053  100100110010101111111101    932BFD
11      1181110  100100000010110110110    1205B6
12      1492185  101101100100011011001    16C4D9
13      4018595  111101010100011010011   3D51A3
14      7654888  11101001100101111101000 74CDE8
15      7062453  11010111100001110110101 6BC3B5
16      2478010  1001011100111110111010   25CFBA
17      6134768  10111011001101111110000 5D9BF0
18      8420417  100000000111110001000001    807C41
19      2917489  1011001000010001110001   2C8471
20      3340773  1100101111100111100101   32F9E5
21      1115956  100010000011100110100    110734
22      9172192  1000101111101001100000   8BF4E0
23      6271996  10111111011001111111100 5FB3FC
24      8686939  100001001000110101011011    848D5B
25      50986    1100011100101010         C72A
26      9376410  1000111100010010010011010    8F129A
27      5962327  10110101111101001010111 5AFA57
28      7686891  11101010100101011101011 754AEB
29      6615183  11001001111000010001111 64F08F
30      1864844  111000111010010001100    1C748C
31      3329962  1100101100111110101010   32CFAA
32      3942794  1111000010100110001010   3C298A
33      2614836  1001111110011000110100   27E634
34      7406772  11100010000010010110100 7104B4
35      2384190  1001000110000100111110   24613E
36      398347   1100001010000001011      6140B
37      8698503  100001001011101010000111    84BA87
38      9551696  10010001101111110101000 91BF50
39      1019556  11111000111010100100     F8EA4
40      1677430  11001100110000110110     199876
```

```
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC2.txt
ITEM    VALUE   BIN     HEX
1       7116776 11011001001011111101000 6C97E8
2       1666340 110010110110100100100    196D24
3       8886983 100001111001101011000111        879AC7
4       839365  11001100111011000101    CCEC5
5       924280  11100001101001111000    E1A78
6       1026310 111110101001000000110   FA906
7       1615293 110001010010110111101   18A5BD
8       1063875 100000011101111000011   103BC3
9       679035  10100101110001111011    A5C7B
10      5201970 10011110110000000110010 4F6032
11      593979  10010001000000111011    9103B
12      801371  11000011101001011011    C3A5B
13      3796878 1110011110111110001110  39EF8E
14      7489201 11100100100011010110001 7246B1
15      9740020 100101001001111011110100        949EF4
16      9128737 100010110100101100100001        8B4B21
17      5473463 10100111000010010110111 5384B7
18      8701957 100001001100100000000101        84C805
19      8238050 11111011011001111100010 7DB3E2
20      8679038 100001000110111001111110        846E7E
21      385912  1011110001101111000     5E378
22      5867340 10110011000011101001100 59874C
23      4894542 10010101010111101001110 4AAF4E
24      8999451 100010010101001000011011        89521B
25      4392535 10000110000011001010111 430657
26      2078131 111111011010110110011   1FB5B3
27      3070124 1011101101100010101100  2ED8AC
28      7451998 11100011011010101011110 71B55E
29      5635510 10101011111101101101010 55FDB6
30      1233932 100101101010000001100   12D40C
31      6089867 10111001110110010001011 5CEC8B
32      1792316 110110101100100111100   1B593C
33      6298637 11000000001110000001101 601C0D
34      2408038 1001001011111001100110  24BE66
35      8510100 100000011101101010010100        81DA94
36      991581  11110010000101011101    F215D
37      6455739 11000101000000110111011 6281BB
38      7829175 11101110111011010110111 7776B7
39      6328931 11000010010010010011    609263
40      9982305 100110000101000101100001        985161
41      2292022 1000101111100100110110  22F936
42      1070496 100000101010110100000   1055A0
43      8518360 100000011111101011011000        81FAD8
```
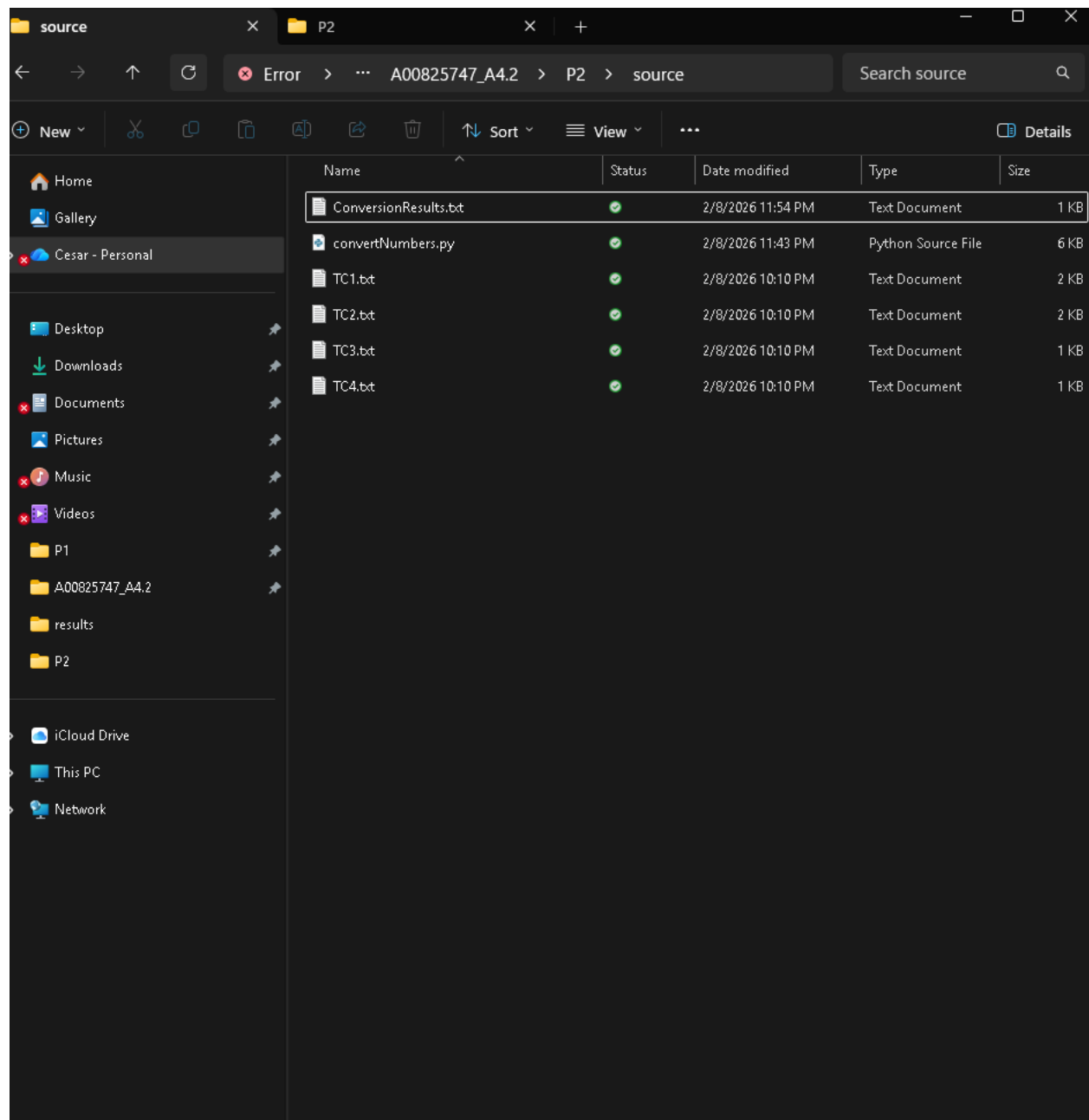
```
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC2.txt
196     6735760  11001101100011110010000 66C790
197     8895858  100001111011110101110010        87BD72
198     4238091  10000001010101100001011 40AB0B
199     7093069  11011000011101101001101 6C3B4D
200     39       100111 27
TIME (seconds): 0.0012571812
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC3.txt
ITEM    VALUE   BIN     HEX
1       -39     1111011001      FFFFFFF3D9
2       -36     1111011100      FFFFFFF3DC
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      FFFFFFF3FA
13      27      11011   1B
14      -4      1111111100      FFFFFFF3FC
15      -38     1111011010      FFFFFFF3DA
16      26      11010   1A
17      49      110001  31
18      29      11101   1D
19      42      101010  2A
20      -16     1111110000      FFFFFFF3F0
21      -28     1111100100      FFFFFFF3E4
22      34      100010  22
23      20      10100   14
24      0       0       0
25      25      11001   19
26      45      101101  2D
27      3       11      3
28      -46     1111010010      FFFFFFF3D2
29      -46     1111010010      FFFFFFF3D2
30      29      11101   1D
31      33      100001  21
32      29      11101   1D
33      26      11010   1A
34      -5      1111111011      FFFFFFF3FB
35      -36     1111011100      FFFFFFF3DC
36      12      1100    C
37      45      101101  2D
38      -50     1111001110      FFFFFFF3CE
39      0       0       0
```

```
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC4.txt
Invalid data at line 8: 'ABC' (ignored)
Invalid data at line 21: 'ERR' (ignored)
Invalid data at line 41: 'VAL' (ignored)
ITEM    VALUE   BIN         HEX
1       -39     1111011001      FFFFFFF3D9
2       -36     1111011100      FFFFFFF3DC
3       8       1000    8
4       34      100010  22
5       17      10001   11
6       49      110001  31
7       5       101     5
8       0       0       0
9       33      100001  21
10      12      1100    C
11      -6      1111111010      FFFFFFF3FA
12      27      11011   1B
13      -4      1111111100      FFFFFFF3FC
14      -38     1111011010      FFFFFFF3DA
15      26      11010   1A
16      49      110001  31
17      29      11101   1D
18      42      101010  2A
19      -16     1111110000      FFFFFFF3F0
20      34      100010  22
21      20      10100   14
22      0       0       0
23      25      11001   19
24      45      101101  2D
25      3       11      3
26      -46     1111010010      FFFFFFF3D2
27      -46     1111010010      FFFFFFF3D2
28      29      11101   1D
29      33      100001  21
30      29      11101   1D
31      26      11010   1A
32      -5      1111111011      FFFFFFF3FB
33      -36     1111011100      FFFFFFF3DC
34      12      1100    C
35      45      101101  2D
36      -50     1111001110      FFFFFFF3CE
37      0       0       0
38      -6      1111111010      FFFFFFF3FA
TIME (seconds): 0.0010585785
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source>
```

It also creates the output file :

⊕ New ˅   ✂   ⧉   📋   ⊡   ↗   🗑   ↑↓ Sort ˅   ☰ View ˅   ⋯   ⊟ Details

Name	Status	Date modified	Type	Size
📄 ConversionResults.txt	✅	2/8/2026 11:54 PM	Text Document	1 KB
🐍 convertNumbers.py	✅	2/8/2026 11:43 PM	Python Source File	6 KB
📄 TC1.txt	✅	2/8/2026 10:10 PM	Text Document	2 KB
📄 TC2.txt	✅	2/8/2026 10:10 PM	Text Document	2 KB
📄 TC3.txt	✅	2/8/2026 10:10 PM	Text Document	1 KB
📄 TC4.txt	✅	2/8/2026 10:10 PM	Text Document	1 KB

Sidebar:
- 🏠 Home
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- ⬇ Downloads 📌
- 📄 Documents 📌
- 🖼 Pictures 📌
- 🎵 Music 📌
- ▶ Videos 📌
- 📁 P1 📌
- 📁 A00825747_A4.2 📌
- 📁 results
- 📁 P2

- ☁ iCloud Drive
- 🖥 This PC
- 🖧 Network

```
ITEM    VALUE   BIN       HEX
1       -39     1111011001   FFFFFFF3D9
2       -36     1111011100   FFFFFFF3DC
3       8       1000       8
4       34      100010     22
5       17      10001      11
6       49      110001     31
7       5       101        5
8       0       0          0
9       33      100001     21
10      12      1100       C
11      -6      1111111010   FFFFFFF3FA
12      27      11011      1B
13      -4      1111111100   FFFFFFF3FC
14      -38     1111011010   FFFFFFF3DA
15      26      11010      1A
16      49      110001     31
17      29      11101      1D
18      42      101010     2A
19      -16     1111110000   FFFFFFF3F0
20      34      100010     22
21      20      10100      14
22      0       0          0
23      25      11001      19
24      45      101101     2D
25      3       11         3
26      -46     1111010010   FFFFFFF3D2
27      -46     1111010010   FFFFFFF3D2
28      29      11101      1D
29      33      100001     21
30      29      11101      1D
31      26      11010      1A
32      -5      1111111011   FFFFFFF3FB
33      -36     1111011100   FFFFFFF3DC
34      12      1100       C
```

PYLINT:

convertNumbers.py ✕

source > convertNumbers.py > ...

```python
184     def main() -> int:
203         print(report, end="")
204         try:
205             with open(RESULTS_FILE, "w", encoding="utf-8") as f:
206                 f.write(report)
207         except OSError as exc:
208             print(f"Warning: could not write '{RESULTS_FILE}'. Details: {exc}")
209
210         return 0
211
212
213     if __name__ == "__main__":
214         raise SystemExit(main())
215
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
29      33      100001  21
30      29      11101   1D ...
convertNumbers.py:147:0: R0914: Too many local variables (16/15) (too-many-locals)

------------------------------------
Your code has been rated at 9.64/10

(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> ^C
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> ^C
(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> pylint convertNumbers.py

----------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.64/10, +0.36)

(base) PS C:\Users\cesar\OneDrive\Escritorio\A00825747_A4.2\P2\source> python convertNumbers.py TC4.txt
Invalid data at line 8: 'ABC' (ignored)
Invalid data at line 21: 'ERR' (ignored)
Invalid data at line 41: 'VAL' (ignored)
ITEM    VALUE   BIN     HEX
1       -39     1111011001      FFFFFFF3D9
2       -36     1111011100      FFFFFFF3DC
3       8       1000    8
4       34      100010  22
5       17      10001   11
6       49      110001  31
7       5       101     5
8       0       0       0
9       33      100001  21
10      12      1100    C
```