



Tecnológico de Monterrey

Maestría en Inteligencia Artificial Aplicada

Pruebas de software y aseguramiento de la calidad
(Gpo 10)

4.2 Ejercicio de programación 1 Dr. Gerardo Padilla Zárate

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Fecha: 04/02/2024

4.2 Ejercicios de Programación 1

Liga de Repositorio: https://github.com/rmunoz78/A01330566_A4.2

Ejercicio 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.

Código Fuente

```
"""
Convert Numbers
by A01330566

This code extracts the number from a text file
and returns them converted to binary and hexadecimal
base
"""
import sys
import time

def extract_data(file_name):
    """
```

```

    this function reads the text file and returns
    the number list extracted from the file
    """
    num_list = []
    try:
        with open(file_name, 'r', encoding="UTF-8") as file:
            for line in file:
                try:
                    num_list.append(float(line.strip()))
                except ValueError:
                    print("Invalid data found in the file:",
line.strip())
            except FileNotFoundError:
                print("File not found:", file_name)
                sys.exit(1)
            except UnicodeDecodeError:
                print("Error decoding file. Please ensure the file is UTF-8
encoded.")
                sys.exit(1)

    return num_list

def convert_num(num, base):
    """
    this function converts fractional or full numbers to base 16 or 2
    """
    if base == 2:
        digits = "01"
    elif base == 16:
        digits = "0123456789ABCDEF"
    else:
        print("Invalid base. Please verify")

    sign = ""
    if num < 0:
        sign = "-"
        num = num * -1
    int_part = int(num)
    flt_part = num - int_part
    result = ""

    while int_part > 0:
        result = digits[int_part % base] + result

```

```

        int_part //= base

    if flt_part > 0:
        flt_conv = ""
        for _ in range(8):
            flt_part *= base
            flt_conv += digits[int(flt_part)]
            flt_part -= int(flt_part)

        result = result + "." + flt_conv

    return sign + result

if __name__ == "__main__":
    if len(sys.argv) != 2:
        print("Usage: python compute_statistics.py InputFile.txt")
        sys.exit(1)

    start_time = time.time()
    filename = sys.argv[1]
    file_data = extract_data(filename)
    new_file_data = []
    for item in file_data:
        new_file_data.append(f"DEC: {item}")
        new_file_data.append(f"HEX: {convert_num(item, 16)}")
        new_file_data.append(f"BIN: {convert_num(item, 2)}")
        new_file_data.append(" "*5)
    elapsed_time = time.time() - start_time
    new_file_data.append(f"Time elapsed:{elapsed_time} seconds")
    with open("ConversionResults.txt", 'w', encoding="UTF-8") as
results_file:
        for new_line in new_file_data:
            print(new_line)
            results_file.write(new_line + "\n")

```

Resultados PyLint

```
computeStatistics.py X
computeStatistics.py > extract_data
1  """
2  ~ Compute Statistics
3  by A01330566
4
5  This code extracts the number from a text file
6  and returns a statistics report showing the
7  mean, mode, median, std deviation and variance
8  of the provided number list
9  """
10 import time
11 import sys
12
13 def extract_data(file_name):
14     """
15     this function reads the text file and returns
16     the number list extracted from the file
17     """
18     num_list = []
19     try:
20         with open(file_name, 'r', encoding="UTF-8") as file:
21             for line in file:
22                 try:
23                     num_list.append(float(line.strip()))
24             except ValueError:
25
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
✓ computeStatistics.py 1
  ① Module name "computeStatistics" doesn't conform to snake_case naming style Pylint(C0103:invalid-name) [Ln 1, Col 1]
```

Ejemplo de Archivo Input

-508
851
-773
581
-500
954
-340
-343
-710
751
-32
-856
-135
550
680
-821
-60
-485

-961
-984
87
537
976
-612
773
92
981
-376
-98
350
836
411
-218
-20
-864
497
444
50
211
703
-23
-230
-302
-613
-542
-309
-107
214
-426
-636
784
94
97
-186
-945
-373
-181
611
-866
-224
-883
-338
229
-902
987
-735

-669
-111
-687
-935
922
882
822
808
382
-391
-763
840
-877
-721
-274
-977
28
-521
762
8
-669
-713
240
212
-5
-930
-254
39
153
72
-480
620
-504
-540
AS
asd
asasfd
1231243
asda

Resultado de Ejemplo

```
PS C:\Users\rmuno\OneDrive\Documents\GitHub\A01330566_A4.2> python
computeStatistics.py Numbers.txt
Invalid data found in the file: AS
Invalid data found in the file: asd
Invalid data found in the file: asasfd
```

Invalid data found in the file: asda
Mean: 12107.18811881188
Median: -111.0
Mode: [-669.0]
Standard Deviation: 121914.98359587483
Variance: 14863263225.18243
Time elapsed: 0.0009999275207519531 seconds

Ejercicio 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.

Código Fuente

```
"""
Convert Numbers
by A01330566

This code extracts the number from a text file
and returns them converted to binary and hexadecimal
base
```



```

"""
import sys
import time

def extract_data(file_name):
    """
    this function reads the text file and returns
    the number list extracted from the file
    """
    num_list = []
    try:
        with open(file_name, 'r', encoding="UTF-8") as file:
            for line in file:
                try:
                    num_list.append(float(line.strip()))
                except ValueError:
                    print("Invalid data found in the file:",
line.strip())
            except FileNotFoundError:
                print("File not found:", file_name)
                sys.exit(1)
            except UnicodeDecodeError:
                print("Error decoding file. Please ensure the file is UTF-8
encoded.")
                sys.exit(1)

        return num_list

def convert_num(num, base):
    """
    this function converts fractional or full numbers to base 16 or 2
    """
    if base == 2:
        digits = "01"
    elif base == 16:
        digits = "0123456789ABCDEF"
    else:
        print("Invalid base. Please verify")

    sign = ""
    if num < 0:
        sign = "-"
        num = num * -1

```

```

int_part = int(num)
flt_part = num-int_part
result = ""

while int_part > 0:
    result = digits[int_part % base] + result
    int_part //= base

if flt_part > 0:
    flt_conv = ""
    for _ in range(8):
        flt_part *= base
        flt_conv += digits[int(flt_part)]
        flt_part -= int(flt_part)

    result = result + "." + flt_conv

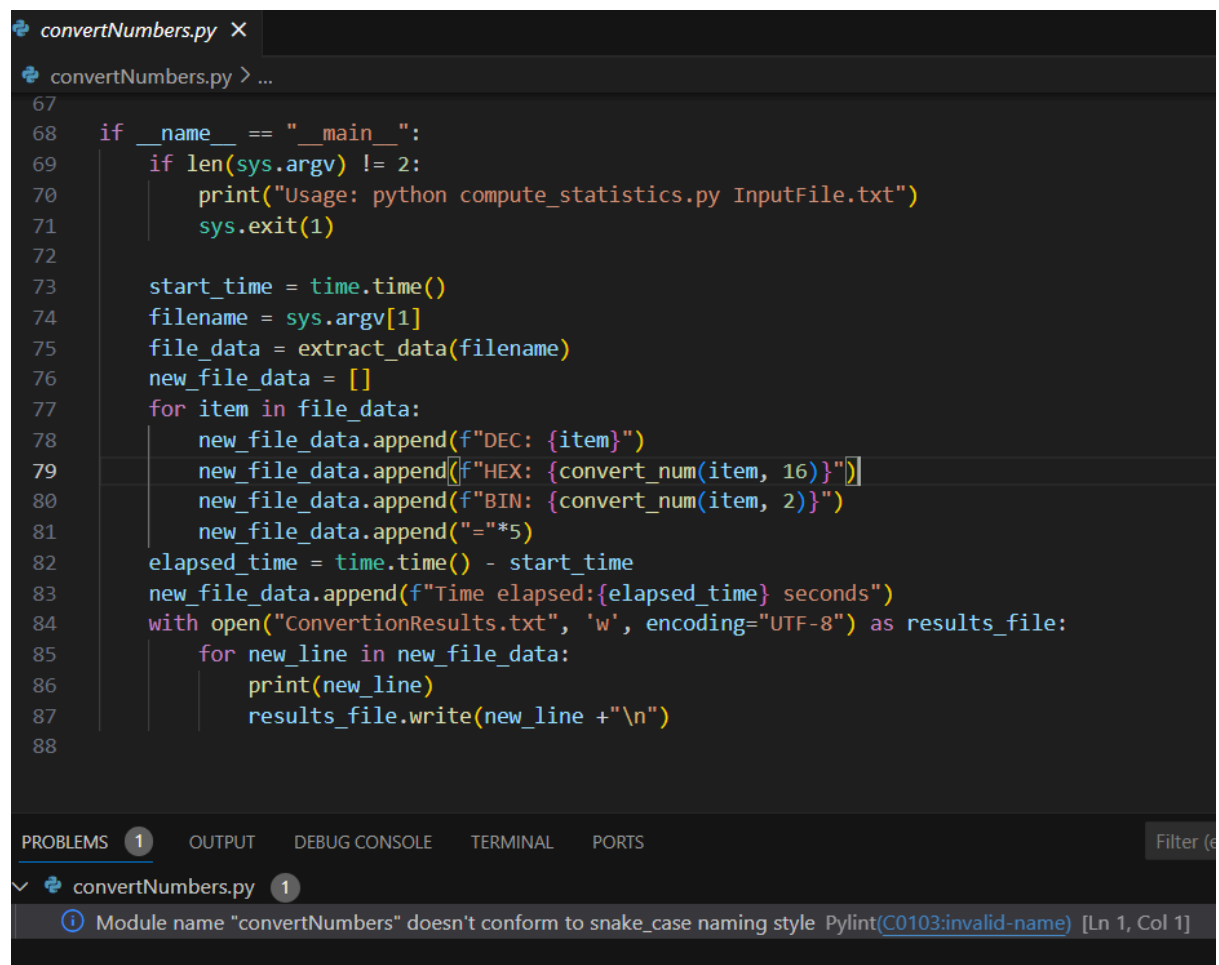
return sign + result

if __name__ == "__main__":
    if len(sys.argv) != 2:
        print("Usage: python compute_statistics.py InputFile.txt")
        sys.exit(1)

    start_time = time.time()
    filename = sys.argv[1]
    file_data = extract_data(filename)
    new_file_data = []
    for item in file_data:
        new_file_data.append(f"DEC: {item}")
        new_file_data.append(f"HEX: {convert_num(item, 16)}")
        new_file_data.append(f"BIN: {convert_num(item, 2)}")
        new_file_data.append(" "*5)
    elapsed_time = time.time() - start_time
    new_file_data.append(f"Time elapsed:{elapsed_time} seconds")
    with open("ConversionResults.txt", 'w', encoding="UTF-8") as
results_file:
        for new_line in new_file_data:
            print(new_line)
            results_file.write(new_line + "\n")

```

Resultados PyLint



The screenshot shows a code editor with a file named `convertNumbers.py`. The code is a Python script that takes a filename as input and processes it. It includes a main function that checks for the correct number of arguments, extracts data from the file, and writes the results to `ConversionResults.txt`. The script uses `time.time()` to measure execution time and `sys.argv` to handle command-line arguments.

```
67
68 if __name__ == "__main__":
69     if len(sys.argv) != 2:
70         print("Usage: python compute_statistics.py InputFile.txt")
71         sys.exit(1)
72
73     start_time = time.time()
74     filename = sys.argv[1]
75     file_data = extract_data(filename)
76     new_file_data = []
77     for item in file_data:
78         new_file_data.append(f"DEC: {item}")
79         new_file_data.append(f"HEX: {convert_num(item, 16)}")
80         new_file_data.append(f"BIN: {convert_num(item, 2)}")
81         new_file_data.append(" "*5)
82     elapsed_time = time.time() - start_time
83     new_file_data.append(f"Time elapsed:{elapsed_time} seconds")
84     with open("ConversionResults.txt", 'w', encoding="UTF-8") as results_file:
85         for new_line in new_file_data:
86             print(new_line)
87             results_file.write(new_line + "\n")
88
```

The bottom of the image shows the PyLint error panel. It indicates a single error: "Module name 'convertNumbers' doesn't conform to snake_case naming style" with the error code `C0103:invalid-name` at line 1, column 1.

Ejemplo de Archivo Input

-508
851
-773
581
-500
954
-340
-343
-710
751
-32
-856
-135
550
680
-821
-60
-485

-961
-984
87
537
976
-612
773
92
981
-376
-98
350
836
411
-218
-20
-864
497
444
50
211
703
-23
-230
-302
-613
-542
-309
-107
214
-426
-636
784
94
97
-186
-945
-373
-181
611
-866
-224
-883
-338
229
-902
987
-735

-669
-111
-687
-935
922
882
822
808
382
-391
-763
840
-877
-721
-274
-977
28
-521
762
8
-669
-713
240
212
-5
-930
-254
39
153
72
-480
620
-504
-540
AS
asd
asasfd
1231243
asda

Resultado de Ejemplo

```
PS C:\Users\rmunro\OneDrive\Documents\GitHub\A01330566_A4.2> python  
convertNumbers.py Numbers.txt
```

Invalid data found in the file: AS

Invalid data found in the file: asd

Invalid data found in the file: asasfd

Invalid data found in the file: asda

DEC: -508.0

HEX: -1FC

BIN: -111111100

=====

DEC: 851.0

HEX: 353

BIN: 1101010011

=====

DEC: -773.0

HEX: -305

BIN: -1100000101

=====

DEC: 581.0

HEX: 245

BIN: 1001000101

=====

DEC: -500.0

HEX: -1F4

BIN: -111110100

=====

DEC: 954.0

HEX: 3BA

BIN: 1110111010

=====

DEC: -340.0

HEX: -154

BIN: -101010100

=====

DEC: -343.0

HEX: -157

BIN: -101010111

=====

DEC: -710.0

HEX: -2C6

BIN: -1011000110

=====

DEC: 751.0

HEX: 2EF

BIN: 1011101111

=====

DEC: -32.0

HEX: -20

BIN: -100000

=====

DEC: -856.0

HEX: -358

BIN: -1101011000

=====

DEC: -135.0

HEX: -87

BIN: -10000111

=====

DEC: 550.0

HEX: 226

BIN: 1000100110

=====

DEC: 680.0

HEX: 2A8

BIN: 1010101000

=====

DEC: -821.0

HEX: -335

BIN: -1100110101

=====

DEC: -60.0

HEX: -3C

BIN: -111100

=====

DEC: -485.0

HEX: -1E5

BIN: -111100101

=====

DEC: -961.0

HEX: -3C1

BIN: -1111000001

=====

DEC: -984.0

HEX: -3D8

BIN: -1111011000

=====

DEC: 87.0

HEX: 57

BIN: 1010111

=====

DEC: 537.0

HEX: 219

BIN: 1000011001

=====

DEC: 976.0

HEX: 3D0

BIN: 1111010000

=====

DEC: -612.0

HEX: -264

BIN: -1001100100

=====

DEC: 773.0

HEX: 305

BIN: 1100000101

=====

DEC: 92.0

HEX: 5C

BIN: 1011100

=====

DEC: 981.0

HEX: 3D5

BIN: 1111010101

=====

DEC: -376.0

HEX: -178

BIN: -101111000

=====

DEC: -98.0

HEX: -62

BIN: -1100010

=====

DEC: 350.0

HEX: 15E

BIN: 101011110

=====

DEC: 836.0

HEX: 344

BIN: 1101000100

=====

DEC: 411.0

HEX: 19B

BIN: 110011011

=====

DEC: -218.0

HEX: -DA

BIN: -11011010

=====

DEC: -20.0

HEX: -14

BIN: -10100

=====

DEC: -864.0

HEX: -360

BIN: -1101100000

=====

DEC: 497.0

HEX: 1F1

BIN: 111110001

=====

DEC: 444.0

HEX: 1BC

BIN: 110111100

=====

DEC: 50.0

HEX: 32

BIN: 110010

=====

DEC: 211.0

HEX: D3

BIN: 11010011

=====

DEC: 703.0

HEX: 2BF

BIN: 101011111

=====

DEC: -23.0

HEX: -17

BIN: -10111

=====

DEC: -230.0

HEX: -E6

BIN: -11100110

=====

DEC: -302.0

HEX: -12E

BIN: -100101110

=====

DEC: -613.0

HEX: -265

BIN: -1001100101

=====

DEC: -542.0

HEX: -21E

BIN: -1000011110

=====

DEC: -309.0

HEX: -135

BIN: -100110101

=====

DEC: -107.0

HEX: -6B

BIN: -1101011

=====

DEC: 214.0

HEX: D6

BIN: 11010110
=====
DEC: -426.0
HEX: -1AA
BIN: -110101010
=====
DEC: -636.0
HEX: -27C
BIN: -1001111100
=====
DEC: 784.0
HEX: 310
BIN: 1100010000
=====
DEC: 94.0
HEX: 5E
BIN: 1011110
=====
DEC: 97.0
HEX: 61
BIN: 1100001
=====
DEC: -186.0
HEX: -BA
BIN: -10111010
=====
DEC: -945.0
HEX: -3B1
BIN: -1110110001
=====
DEC: -373.0
HEX: -175
BIN: -101110101
=====
DEC: -181.0
HEX: -B5
BIN: -10110101
=====
DEC: 611.0
HEX: 263
BIN: 1001100011
=====
DEC: -866.0
HEX: -362
BIN: -1101100010
=====
DEC: -224.0
HEX: -E0

BIN: -11100000
=====
DEC: -883.0
HEX: -373
BIN: -1101110011
=====
DEC: -338.0
HEX: -152
BIN: -101010010
=====
DEC: 229.0
HEX: E5
BIN: 11100101
=====
DEC: -902.0
HEX: -386
BIN: -1110000110
=====
DEC: 987.0
HEX: 3DB
BIN: 1111011011
=====
DEC: -735.0
HEX: -2DF
BIN: -1011011111
=====
DEC: -669.0
HEX: -29D
BIN: -1010011101
=====
DEC: -111.0
HEX: -6F
BIN: -1101111
=====
DEC: -687.0
HEX: -2AF
BIN: -1010101111
=====
DEC: -935.0
HEX: -3A7
BIN: -1110100111
=====
DEC: 922.0
HEX: 39A
BIN: 1110011010
=====
DEC: 882.0
HEX: 372

BIN: 1101110010

=====

DEC: 822.0

HEX: 336

BIN: 1100110110

=====

DEC: 808.0

HEX: 328

BIN: 1100101000

=====

DEC: 382.0

HEX: 17E

BIN: 101111110

=====

DEC: -391.0

HEX: -187

BIN: -110000111

=====

DEC: -763.0

HEX: -2FB

BIN: -1011111011

=====

DEC: 840.0

HEX: 348

BIN: 1101001000

=====

DEC: -877.0

HEX: -36D

BIN: -1101101101

=====

DEC: -721.0

HEX: -2D1

BIN: -1011010001

=====

DEC: -274.0

HEX: -112

BIN: -100010010

=====

DEC: -977.0

HEX: -3D1

BIN: -1111010001

=====

DEC: 28.0

HEX: 1C

BIN: 11100

=====

DEC: -521.0

HEX: -209

BIN: -1000001001

=====

DEC: 762.0

HEX: 2FA

BIN: 1011111010

=====

DEC: 8.0

HEX: 8

BIN: 1000

=====

DEC: -669.0

HEX: -29D

BIN: -1010011101

=====

DEC: -713.0

HEX: -2C9

BIN: -1011001001

=====

DEC: 240.0

HEX: F0

BIN: 11110000

=====

DEC: 212.0

HEX: D4

BIN: 11010100

=====

DEC: -5.0

HEX: -5

BIN: -101

=====

DEC: -930.0

HEX: -3A2

BIN: -1110100010

=====

DEC: -254.0

HEX: -FE

BIN: -11111110

=====

DEC: 39.0

HEX: 27

BIN: 100111

=====

DEC: 153.0

HEX: 99

BIN: 10011001

=====

DEC: 72.0

HEX: 48

```
BIN: 1001000
=====
DEC: -480.0
HEX: -1E0
BIN: -111100000
=====
DEC: 620.0
HEX: 26C
BIN: 1001101100
=====
DEC: -504.0
HEX: -1F8
BIN: -111111000
=====
DEC: -540.0
HEX: -21C
BIN: -1000011100
=====
DEC: 1231243.0
HEX: 12C98B
BIN: 100101100100110001011
=====
Time elapsed:0.0 seconds
```

Ejercicio 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.

Código Fuente

```
"""
Word Count
by A01330566

This program shall identify all distinct words and the frequency of
them
"""
import sys
import time
import re

def remove_non_alphanumeric(line):
    """
    This method removes all non alphanumeric values from the line
    """
    return re.sub(r'^a-zA-Z0-9\s\'', '', line)

def extract_data(file_name):
    """
    this function reads the text file and returns
    the word list extracted from the file
    """
    dic_words = {}
    try:
        with open(file_name, 'r', encoding="UTF-8") as file:
            for line in file:
                clean_line = remove_non_alphanumeric(line.strip())
                line_split = clean_line.strip().split()
                for word in line_split:
                    if word.lower() in dic_words:
                        dic_words[word.lower()] += 1
                    else:
```

```

        dic_words[word.lower()] = 1
    except FileNotFoundError:
        print("File not found:", file_name)
        sys.exit(1)
    except UnicodeDecodeError:
        print("Error decoding file. Please ensure the file is UTF-8
encoded.")
        sys.exit(1)

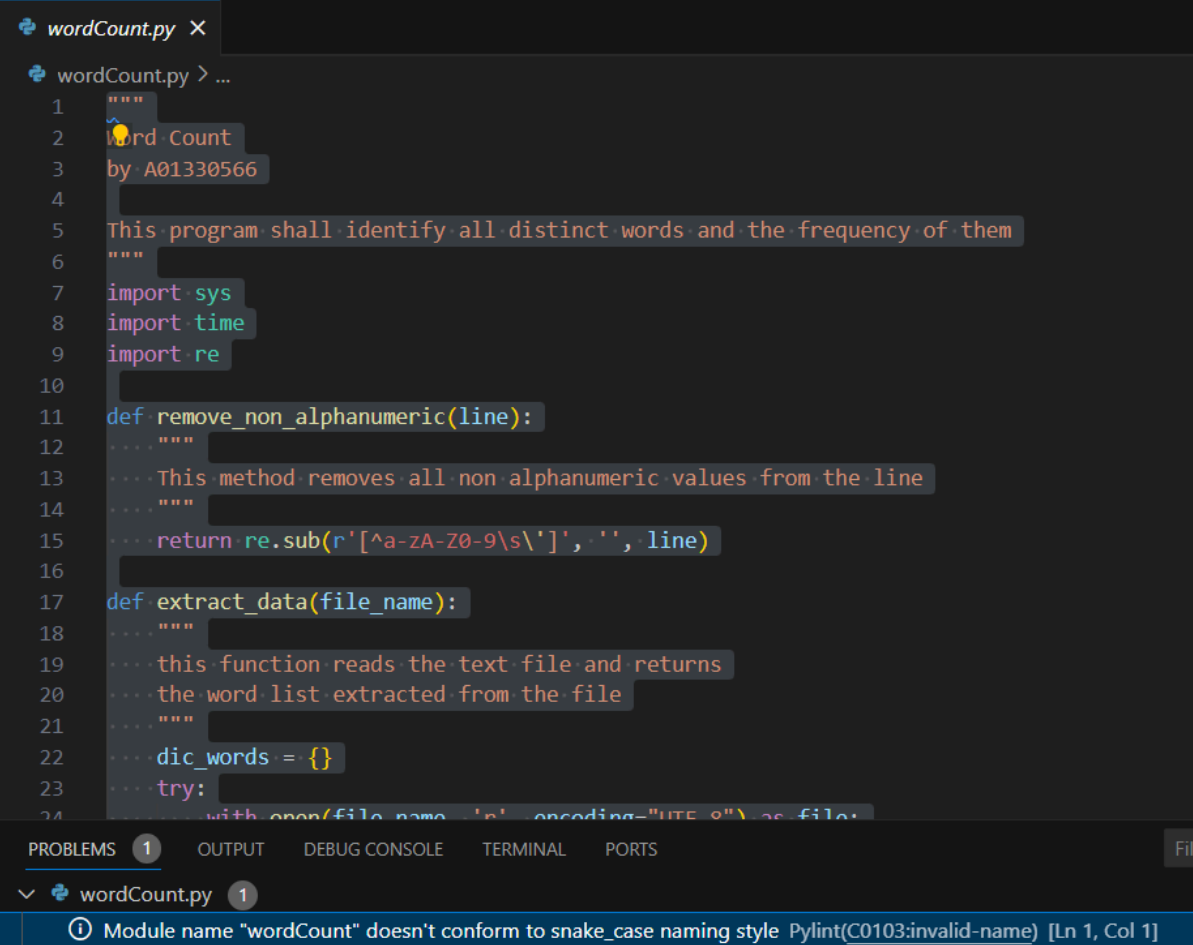
    return dic_words

if __name__ == "__main__":
    if len(sys.argv) != 2:
        print("Usage: python word_count.py InputFile.txt")
        sys.exit(1)

    start_time = time.time()
    filename = sys.argv[1]
    file_data = extract_data(filename)
    with open("WordCountResults.txt", 'w', encoding="UTF-8") as
results_file:
        for item in file_data.items():
            new_line = f"{item[0]} : {item[1]}"
            print(new_line)
            results_file.write(new_line + "\n")
    elapsed_time = time.time() - start_time
    print(f"Time elapsed:{elapsed_time} seconds")
    results_file.write(f"Time elapsed:{elapsed_time} seconds")

```


Resultados de PyLint



```
wordCount.py X
wordCount.py > ...
1 """
2 Word Count
3 by A01330566
4
5 This program shall identify all distinct words and the frequency of them
6 """
7 import sys
8 import time
9 import re
10
11 def remove_non_alphanumeric(line):
12     """
13     This method removes all non alphanumeric values from the line
14     """
15     return re.sub(r'^a-zA-Z0-9\s\''', '', line)
16
17 def extract_data(file_name):
18     """
19     this function reads the text file and returns
20     the word list extracted from the file
21     """
22     dic_words = {}
23     try:
24         with open(file_name, 'r', encoding="UTF-8") as file:
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

wordCount.py 1

Module name "wordCount" doesn't conform to snake_case naming style Pylint(C0103:invalid-name) [Ln 1, Col 1]

Ejemplo de Archivo Input

You got a fast car
And I want a ticket to anywhere
Maybe we make a deal
Maybe together we can get somewhere
Any place is better
Starting from zero, got nothing to lose
Maybe we'll make something
Me, myself, I got nothing to prove
You got a fast car
I got a plan to get us out of here
I've been working at the convenience store
Managed to save just a little bit of money
Won't have to drive too far
Just across the border and into the city
You and I can both get jobs
Finally, see what it means to be living

See, my old man's got a problem
He live with the bottle, that's the way it is
He says his body's too old for working
His body's too young to look like his
Mama went off and left him
She wanted more from life than he could give
I said, "Somebody's got to take care of him"
So, I quit school and that's what I did
You got a fast car
Is it fast enough so we can fly away?
Still gotta make a decision
Leave tonight, or live and die this way
So, I remember when we were driving, driving in your car
Speed so fast, I felt like I was drunk
City lights lay out before us
And your arm felt nice wrapped around my shoulder
And I, I, I had a feeling that I belonged
I, I, I had a feeling I could be someone, be someone, be someone
You got a fast car
We go cruising, entertain ourselves
You still ain't got a job
So I work in a market as a checkout girl
I know things will get better
You'll find work and I'll get promoted
We'll move out of the shelter
Buy a bigger house, live in the suburbs
So, I remember when we were driving, driving in your car
Speed so fast, I felt like I was drunk
City lights lay out before us
And your arm felt nice wrapped around my shoulder
And I, I, I had a feeling that I belonged
I, I, I had a feeling I could be someone, be someone, be someone
You got a fast car
I got a job that pays all our bills
You stay out drinking late at the bar
See more of your friends than you do of your kids
I'd always hoped for better
Thought maybe together you and me would find it
I got no plans, I ain't going nowhere
Take your fast car and keep on driving
So, I remember when we were driving, driving in your car
Speed so fast, I felt like I was drunk
City lights lay out before us
And your arm felt nice wrapped around my shoulder
And I, I, I had a feeling that I belonged
I, I, I had a feeling I could be someone, be someone, be someone
You got a fast car
Is it fast enough, so you can fly away?

You still gotta make a decision
Leave tonight, or live and die this way

Resultados del Ejemplo

```
PS C:\Users\rmunro\OneDrive\Documents\GitHub\A01330566_A4.2> python wordCount.py  
TextFile.txt
```

```
you : 13  
got : 14  
a : 24  
fast : 12  
car : 10  
and : 16  
i : 45  
want : 1  
ticket : 1  
to : 9  
anywhere : 1  
maybe : 4  
we : 7  
make : 4  
deal : 1  
together : 2  
can : 4  
get : 5  
somewhere : 1  
any : 1  
place : 1  
is : 4  
better : 3  
starting : 1  
from : 2  
zero : 1  
nothing : 2  
lose : 1  
we'll : 2  
something : 1  
me : 2  
myself : 1  
prove : 1  
plan : 1  
us : 4  
out : 6  
of : 6  
here : 1  
i've : 1
```

been : 1
working : 2
at : 2
the : 8
convenience : 1
store : 1
managed : 1
save : 1
just : 2
little : 1
bit : 1
money : 1
won't : 1
have : 1
drive : 1
too : 3
far : 1
across : 1
border : 1
into : 1
city : 4
both : 1
jobs : 1
finally : 1
see : 3
what : 2
it : 5
means : 1
be : 10
living : 1
my : 4
old : 2
man's : 1
problem : 1
he : 3
live : 4
with : 1
bottle : 1
that's : 2
way : 3
says : 1
his : 3
body's : 2
for : 2
young : 1
look : 1
like : 4
mama : 1

went : 1
off : 1
left : 1
him : 2
she : 1
wanted : 1
more : 2
life : 1
than : 2
could : 4
give : 1
said : 1
somebody's : 1
take : 2
care : 1
so : 10
quit : 1
school : 1
did : 1
enough : 2
fly : 2
away : 2
still : 3
gotta : 2
decision : 2
leave : 2
tonight : 2
or : 2
die : 2
this : 2
remember : 3
when : 3
were : 3
driving : 7
in : 5
your : 9
speed : 3
felt : 6
was : 3
drunk : 3
lights : 3
lay : 3
before : 3
arm : 3
nice : 3
wrapped : 3
around : 3
shoulder : 3

had : 6
feeling : 6
that : 4
belonged : 3
someone : 9
go : 1
cruising : 1
entertain : 1
ourselves : 1
ain't : 2
job : 2
work : 2
market : 1
as : 1
checkout : 1
girl : 1
know : 1
things : 1
will : 1
you'll : 1
find : 2
i'll : 1
promoted : 1
move : 1
shelter : 1
buy : 1
bigger : 1
house : 1
suburbs : 1
pays : 1
all : 1
our : 1
bills : 1
stay : 1
drinking : 1
late : 1
bar : 1
friends : 1
do : 1
kids : 1
i'd : 1
always : 1
hoped : 1
thought : 1
would : 1
no : 1
plans : 1
going : 1

nowhere : 1

keep : 1

on : 1

Time elapsed:0.0 seconds