Pruebas de software y aseguramiento de la calidad

TC4017.10

5.2 Ejercicio de programación 2 y análisis estático

Profesor titular: Dr. Gerardo Padilla Zárate

Profesor asistente: Mtra. Viridiana Rodríguez González

Alumno

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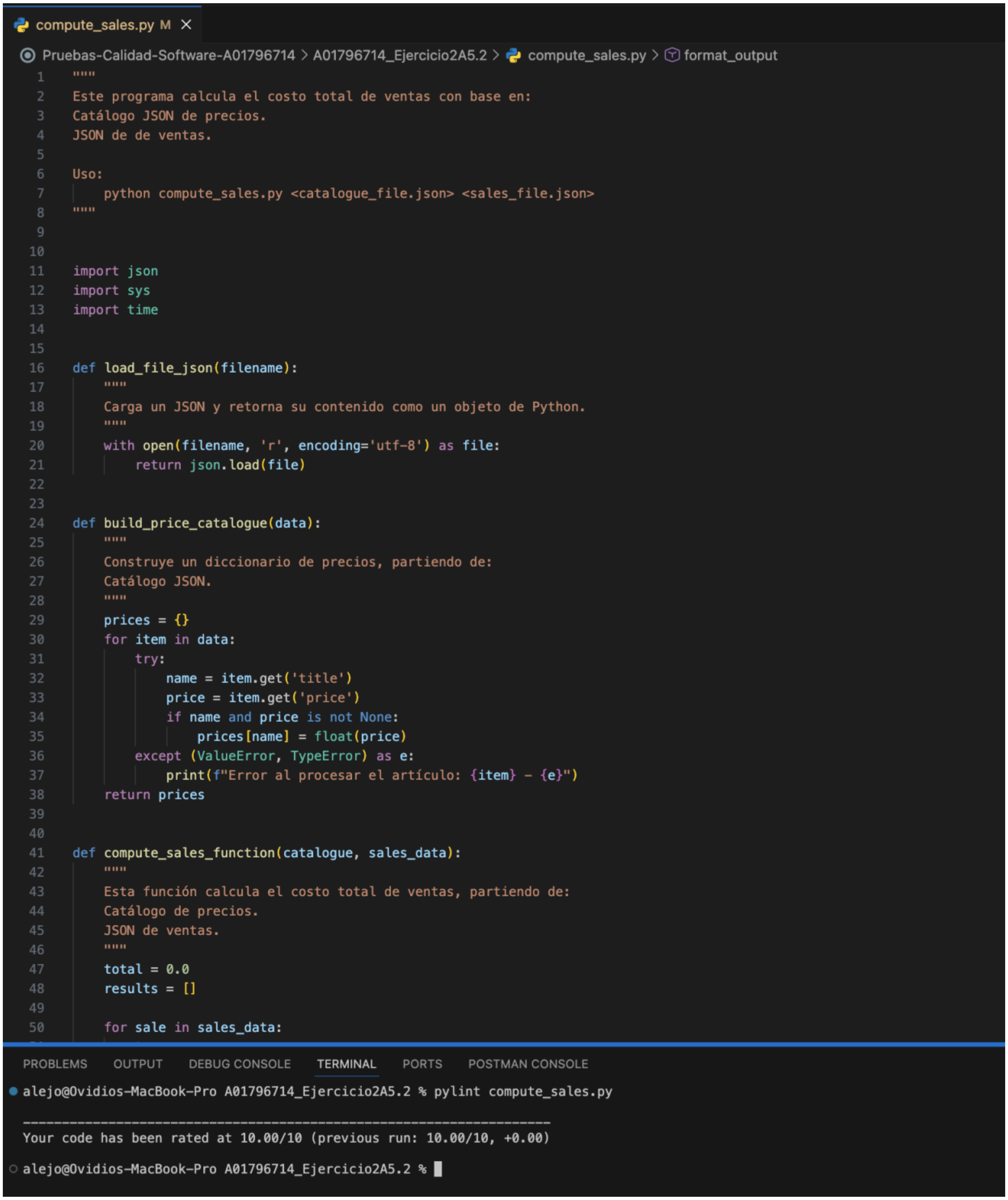
Febrero 15, 2026

Ejercicio: Compute Sales

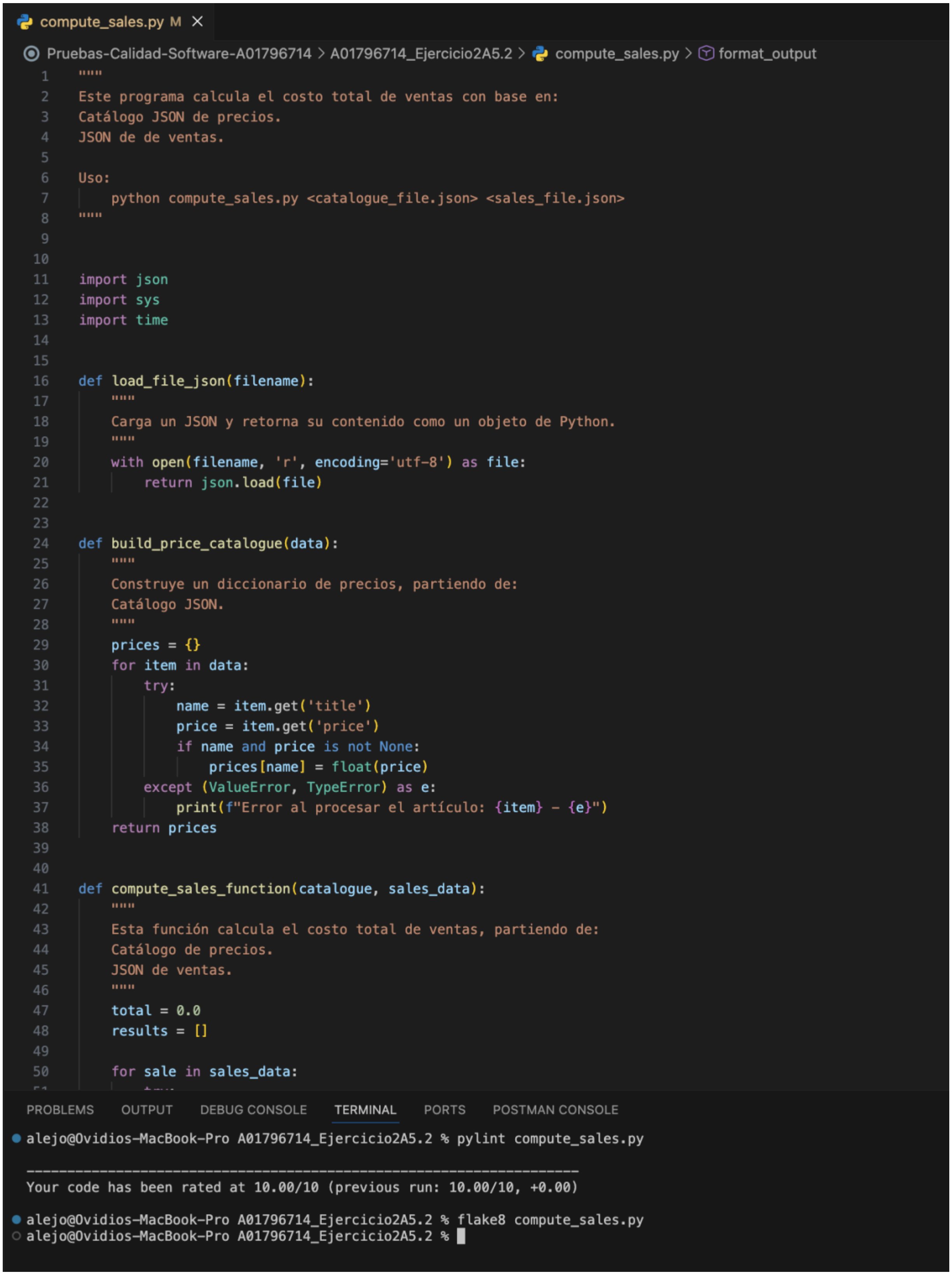
Evidencia de la correcta ejecución de ***pylint***, aplicado al programa compute_sales.py


compute_sales.py M ×
Pruebas-Calidad-Software-A01796714 > A01796714_Ejercicio2A5.2 > compute_sales.py > format_output

```python
"""
Este programa calcula el costo total de ventas con base en:
Catálogo JSON de precios.
JSON de de ventas.

Uso:
    python compute_sales.py <catalogue_file.json> <sales_file.json>
"""


import json
import sys
import time


def load_file_json(filename):
    """
    Carga un JSON y retorna su contenido como un objeto de Python.
    """
    with open(filename, 'r', encoding='utf-8') as file:
        return json.load(file)


def build_price_catalogue(data):
    """
    Construye un diccionario de precios, partiendo de:
    Catálogo JSON.
    """
    prices = {}
    for item in data:
        try:
            name = item.get('title')
            price = item.get('price')
            if name and price is not None:
                prices[name] = float(price)
        except (ValueError, TypeError) as e:
            print(f"Error al procesar el artículo: {item} - {e}")
    return prices


def compute_sales_function(catalogue, sales_data):
    """
    Esta función calcula el costo total de ventas, partiendo de:
    Catálogo de precios.
    JSON de ventas.
    """
    total = 0.0
    results = []

    for sale in sales_data:
```

```
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % pylint compute_sales.py

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

alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % 
```

Evidencia de la correcta ejecución de ***flake8***, aplicado al programa compute_sales.py


compute_sales.py M
Pruebas-Calidad-Software-A01796714 > A01796714_Ejercicio2A5.2 > compute_sales.py > format_output
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
POSTMAN CONSOLE

```python
"""
Este programa calcula el costo total de ventas con base en:
Catálogo JSON de precios.
JSON de de ventas.

Uso:
    python compute_sales.py <catalogue_file.json> <sales_file.json>
"""


import json
import sys
import time


def load_file_json(filename):
    """
    Carga un JSON y retorna su contenido como un objeto de Python.
    """
    with open(filename, 'r', encoding='utf-8') as file:
        return json.load(file)


def build_price_catalogue(data):
    """
    Construye un diccionario de precios, partiendo de:
    Catálogo JSON.
    """
    prices = {}
    for item in data:
        try:
            name = item.get('title')
            price = item.get('price')
            if name and price is not None:
                prices[name] = float(price)
        except (ValueError, TypeError) as e:
            print(f"Error al procesar el artículo: {item} - {e}")
    return prices


def compute_sales_function(catalogue, sales_data):
    """
    Esta función calcula el costo total de ventas, partiendo de:
    Catálogo de precios.
    JSON de ventas.
    """
    total = 0.0
    results = []

    for sale in sales_data:
```

```
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % pylint compute_sales.py

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

alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % flake8 compute_sales.py
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 %
```

Escenario de prueba TC1

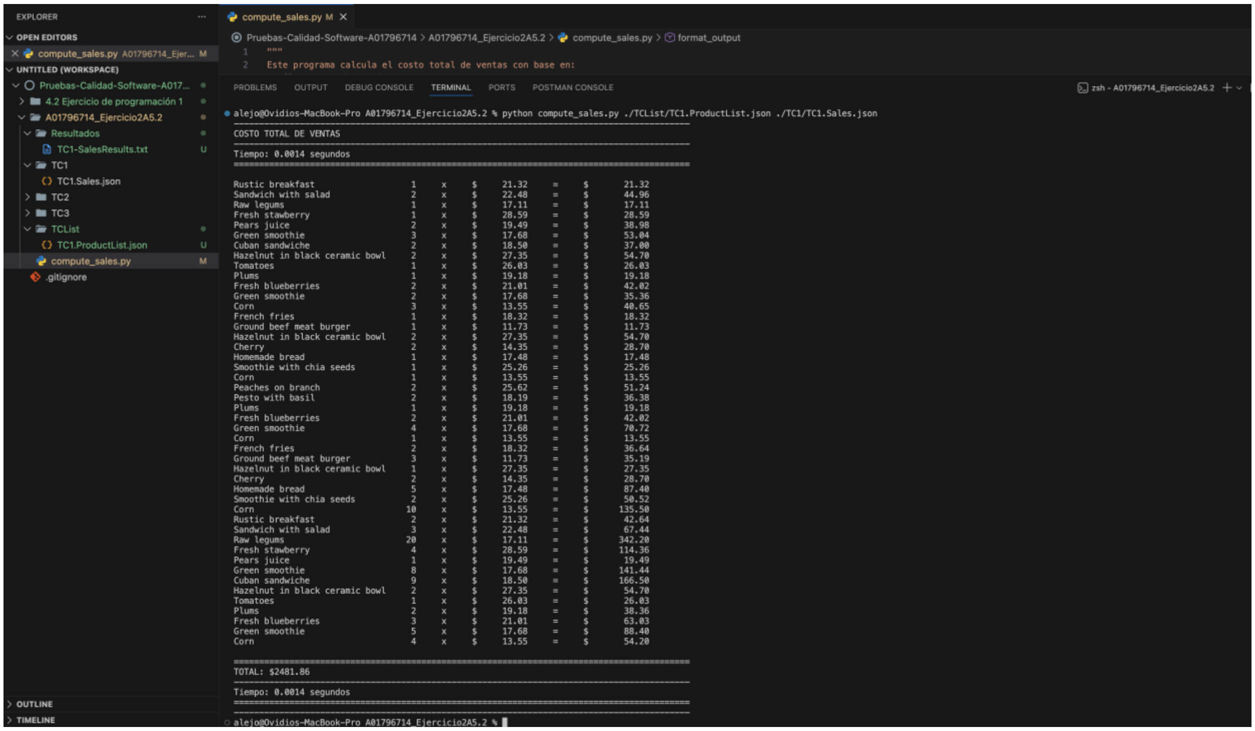
Tiempo de ejecución del programa, para procesar el escenario de prueba TC1.

0.0014 segundos.

Total

$2481.86

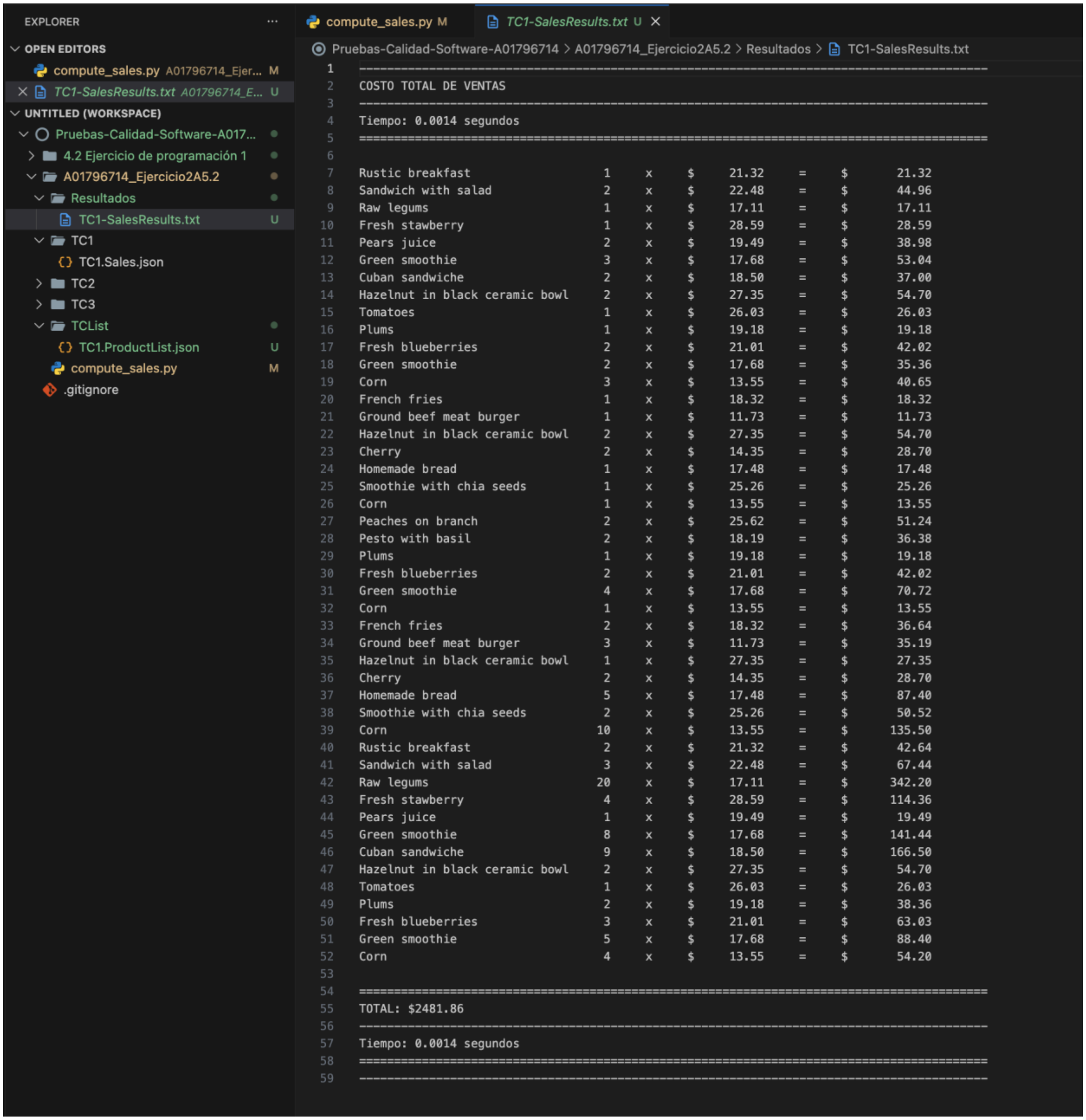
TC1: Evidencia de resultado en consola.



```
"""
Este programa calcula el costo total de ventas con base en:
```

```
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % python compute_sales.py ./TCList/TC1.ProductList.json ./TC1/TC1.Sales.json
-------------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
-------------------------------------------------------------------------------------
Tiempo: 0.0014 segundos
=====================================================================================

Rustic breakfast                  1    x    $    21.32    =    $     21.32
Sandwich with salad               2    x    $    22.48    =    $     44.96
Raw legums                        1    x    $    17.11    =    $     17.11
Fresh stawberry                   1    x    $    28.59    =    $     28.59
Pears juice                       2    x    $    19.49    =    $     38.98
Green smoothie                    3    x    $    17.68    =    $     53.04
Cuban sandwiche                   2    x    $    18.50    =    $     37.00
Hazelnut in black ceramic bowl    2    x    $    27.35    =    $     54.70
Tomatoes                          1    x    $    26.03    =    $     26.03
Plums                             1    x    $    19.18    =    $     19.18
Fresh blueberries                 2    x    $    21.01    =    $     42.02
Green smoothie                    2    x    $    17.68    =    $     35.36
Corn                              3    x    $    13.55    =    $     40.65
French fries                      1    x    $    18.32    =    $     18.32
Ground beef meat burger           1    x    $    11.73    =    $     11.73
Hazelnut in black ceramic bowl    2    x    $    27.35    =    $     54.70
Cherry                            2    x    $    14.35    =    $     28.70
Homemade bread                    1    x    $    17.48    =    $     17.48
Smoothie with chia seeds          1    x    $    25.26    =    $     25.26
Corn                              1    x    $    13.55    =    $     13.55
Peaches on branch                 2    x    $    25.62    =    $     51.24
Pesto with basil                  2    x    $    18.19    =    $     36.38
Plums                             1    x    $    19.18    =    $     19.18
Fresh blueberries                 2    x    $    21.01    =    $     42.02
Green smoothie                    4    x    $    17.68    =    $     70.72
Corn                              1    x    $    13.55    =    $     13.55
French fries                      2    x    $    18.32    =    $     36.64
Ground beef meat burger           3    x    $    11.73    =    $     35.19
Hazelnut in black ceramic bowl    1    x    $    27.35    =    $     27.35
Cherry                            2    x    $    14.35    =    $     28.70
Homemade bread                    5    x    $    17.48    =    $     87.40
Smoothie with chia seeds          2    x    $    25.26    =    $     50.52
Corn                             10    x    $    13.55    =    $    135.50
Rustic breakfast                  2    x    $    21.32    =    $     42.64
Sandwich with salad               3    x    $    22.48    =    $     67.44
Raw legums                       20    x    $    17.11    =    $    342.20
Fresh stawberry                   4    x    $    28.59    =    $    114.36
Pears juice                       1    x    $    19.49    =    $     19.49
Green smoothie                    8    x    $    17.68    =    $    141.44
Cuban sandwiche                   9    x    $    18.50    =    $    166.50
Hazelnut in black ceramic bowl    2    x    $    27.35    =    $     54.70
Tomatoes                          1    x    $    26.03    =    $     26.03
Plums                             2    x    $    19.18    =    $     38.36
Fresh blueberries                 3    x    $    21.01    =    $     63.03
Green smoothie                    5    x    $    17.68    =    $     88.40
Corn                              4    x    $    13.55    =    $     54.20

=====================================================================================
TOTAL: $2481.86
-------------------------------------------------------------------------------------
Tiempo: 0.0014 segundos
=====================================================================================
-------------------------------------------------------------------------------------
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % 
```

TC1: Evidencia de resultado en archivo .txt


EXPLORER
OPEN EDITORS
compute_sales.py A01796714_Ejer... M
TC1-SalesResults.txt A01796714_E... U
UNTITLED (WORKSPACE)
Pruebas-Calidad-Software-A017...
4.2 Ejercicio de programación 1
A01796714_Ejercicio2A5.2
Resultados
TC1-SalesResults.txt U
TC1
TC1.Sales.json
TC2
TC3
TCList
TC1.ProductList.json U
compute_sales.py M
.gitignore
compute_sales.py M
TC1-SalesResults.txt U
Pruebas-Calidad-Software-A01796714 > A01796714_Ejercicio2A5.2 > Resultados > TC1-SalesResults.txt

```
------------------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
------------------------------------------------------------------------------------------
Tiempo: 0.0014 segundos
==========================================================================================

Rustic breakfast                   1     x     $     21.32     =     $      21.32
Sandwich with salad                2     x     $     22.48     =     $      44.96
Raw legums                         1     x     $     17.11     =     $      17.11
Fresh stawberry                    1     x     $     28.59     =     $      28.59
Pears juice                        2     x     $     19.49     =     $      38.98
Green smoothie                     3     x     $     17.68     =     $      53.04
Cuban sandwiche                    2     x     $     18.50     =     $      37.00
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $      54.70
Tomatoes                           1     x     $     26.03     =     $      26.03
Plums                              1     x     $     19.18     =     $      19.18
Fresh blueberries                  2     x     $     21.01     =     $      42.02
Green smoothie                     2     x     $     17.68     =     $      35.36
Corn                               3     x     $     13.55     =     $      40.65
French fries                       1     x     $     18.32     =     $      18.32
Ground beef meat burger            1     x     $     11.73     =     $      11.73
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $      54.70
Cherry                             2     x     $     14.35     =     $      28.70
Homemade bread                     1     x     $     17.48     =     $      17.48
Smoothie with chia seeds           1     x     $     25.26     =     $      25.26
Corn                               1     x     $     13.55     =     $      13.55
Peaches on branch                  2     x     $     25.62     =     $      51.24
Pesto with basil                   2     x     $     18.19     =     $      36.38
Plums                              1     x     $     19.18     =     $      19.18
Fresh blueberries                  2     x     $     21.01     =     $      42.02
Green smoothie                     4     x     $     17.68     =     $      70.72
Corn                               1     x     $     13.55     =     $      13.55
French fries                       2     x     $     18.32     =     $      36.64
Ground beef meat burger            3     x     $     11.73     =     $      35.19
Hazelnut in black ceramic bowl     1     x     $     27.35     =     $      27.35
Cherry                             2     x     $     14.35     =     $      28.70
Homemade bread                     5     x     $     17.48     =     $      87.40
Smoothie with chia seeds           2     x     $     25.26     =     $      50.52
Corn                              10     x     $     13.55     =     $     135.50
Rustic breakfast                   2     x     $     21.32     =     $      42.64
Sandwich with salad                3     x     $     22.48     =     $      67.44
Raw legums                        20     x     $     17.11     =     $     342.20
Fresh stawberry                    4     x     $     28.59     =     $     114.36
Pears juice                        1     x     $     19.49     =     $      19.49
Green smoothie                     8     x     $     17.68     =     $     141.44
Cuban sandwiche                    9     x     $     18.50     =     $     166.50
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $      54.70
Tomatoes                           1     x     $     26.03     =     $      26.03
Plums                              2     x     $     19.18     =     $      38.36
Fresh blueberries                  3     x     $     21.01     =     $      63.03
Green smoothie                     5     x     $     17.68     =     $      88.40
Corn                               4     x     $     13.55     =     $      54.20

==========================================================================================
TOTAL: $2481.86
------------------------------------------------------------------------------------------
Tiempo: 0.0014 segundos
==========================================================================================
------------------------------------------------------------------------------------------
```

Escenario de prueba TC2

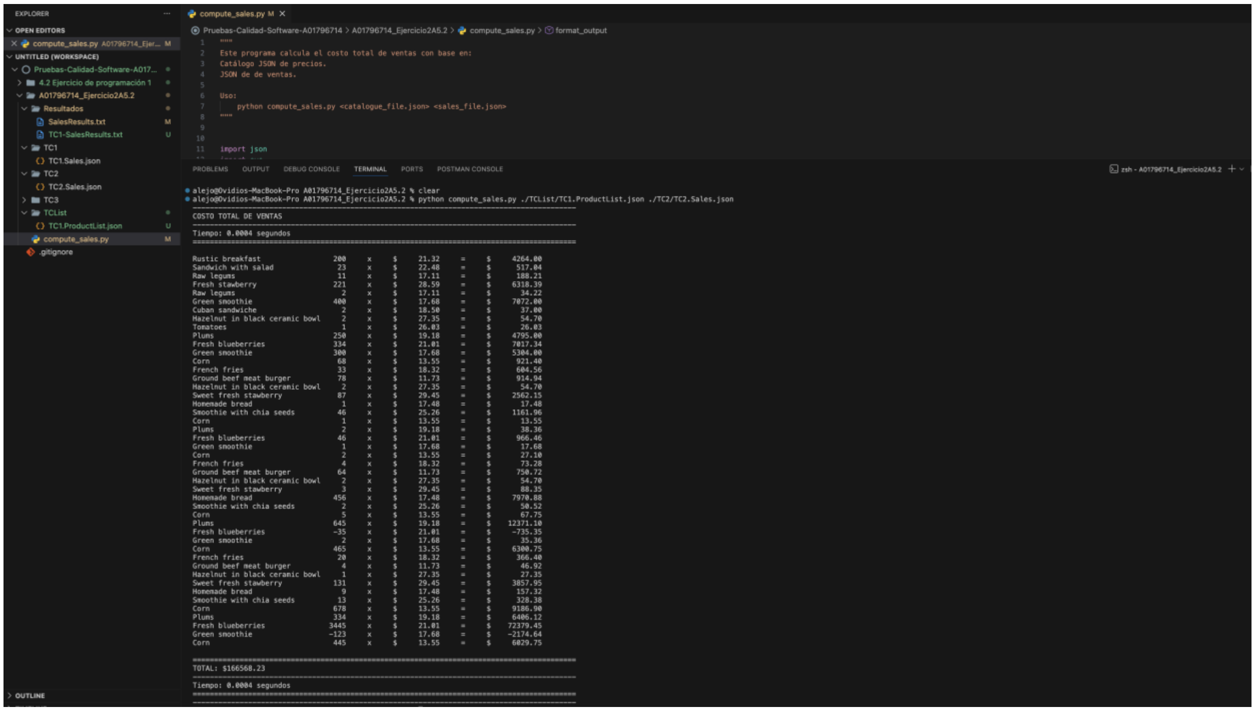
Tiempo de ejecución del programa, para procesar el escenario de prueba TC2.

0.0004 segundos.

Total

$166568.23

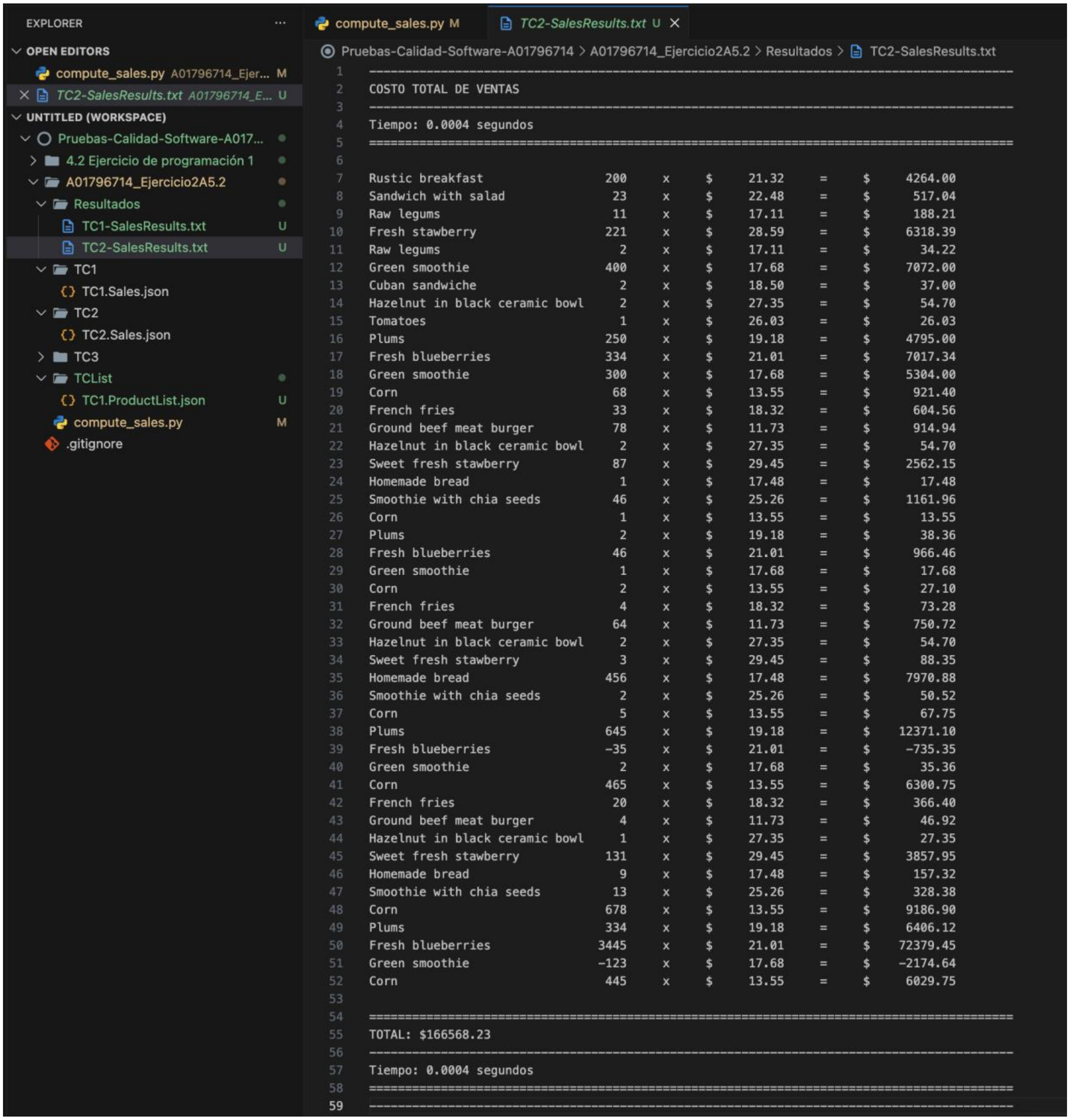
TC2: Evidencia de resultado en consola.



```python
"""
Este programa calcula el costo total de ventas con base en:
Catálogo JSON de precios.
JSON de de ventas.

Uso:
    python compute_sales.py <catalogue_file.json> <sales_file.json>
"""


import json
```

```
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % clear
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % python compute_sales.py ./TCList/TC1.ProductList.json ./TC2/TC2.Sales.json
--------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
--------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
================================================================================

Rustic breakfast               200     x     $     21.32     =     $     4264.00
Sandwich with salad             23     x     $     22.48     =     $      517.04
Raw legums                      11     x     $     17.11     =     $      188.21
Fresh stawberry                221     x     $     28.59     =     $     6318.39
Raw legums                       2     x     $     17.11     =     $       34.22
Green smoothie                 400     x     $     17.68     =     $     7072.00
Cuban sandwiche                  2     x     $     18.50     =     $       37.00
Hazelnut in black ceramic bowl   2     x     $     27.35     =     $       54.70
Tomatoes                         1     x     $     26.03     =     $       26.03
Plums                          250     x     $     19.18     =     $     4795.00
Fresh blueberries              334     x     $     21.01     =     $     7017.34
Green smoothie                 300     x     $     17.68     =     $     5304.00
Corn                            68     x     $     13.55     =     $      921.40
French fries                    33     x     $     18.32     =     $      604.56
Ground beef meat burger         78     x     $     11.73     =     $      914.94
Hazelnut in black ceramic bowl   2     x     $     27.35     =     $       54.70
Sweet fresh stawberry           87     x     $     29.45     =     $     2562.15
Homemade bread                   1     x     $     17.48     =     $       17.48
Smoothie with chia seeds        46     x     $     25.26     =     $     1161.96
Corn                             1     x     $     13.55     =     $       13.55
Plums                            2     x     $     19.18     =     $       38.36
Fresh blueberries               46     x     $     21.01     =     $      966.46
Green smoothie                   1     x     $     17.68     =     $       17.68
Corn                             2     x     $     13.55     =     $       27.10
French fries                     4     x     $     18.32     =     $       73.28
Ground beef meat burger         64     x     $     11.73     =     $      750.72
Hazelnut in black ceramic bowl   2     x     $     27.35     =     $       54.70
Sweet fresh stawberry            3     x     $     29.45     =     $       88.35
Homemade bread                 456     x     $     17.48     =     $     7970.88
Smoothie with chia seeds         2     x     $     25.26     =     $       50.52
Corn                             5     x     $     13.55     =     $       67.75
Plums                          645     x     $     19.18     =     $    12371.10
Fresh blueberries              -35     x     $     21.01     =     $     -735.35
Green smoothie                   2     x     $     17.68     =     $       35.36
Corn                           465     x     $     13.55     =     $     6300.75
French fries                    20     x     $     18.32     =     $      366.40
Ground beef meat burger          4     x     $     11.73     =     $       46.92
Hazelnut in black ceramic bowl   1     x     $     27.35     =     $       27.35
Sweet fresh stawberry          131     x     $     29.45     =     $     3857.95
Homemade bread                   9     x     $     17.48     =     $      157.32
Smoothie with chia seeds        13     x     $     25.26     =     $      328.38
Corn                           678     x     $     13.55     =     $     9186.90
Plums                          334     x     $     19.18     =     $     6406.12
Fresh blueberries             3445     x     $     21.01     =     $    72379.45
Green smoothie                -123     x     $     17.68     =     $    -2174.64
Corn                           445     x     $     13.55     =     $     6029.75

================================================================================
TOTAL: $166568.23
--------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
================================================================================
--------------------------------------------------------------------------------
```

TC2: Evidencia de resultado en archivo .txt



```
------------------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
------------------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
==========================================================================================

Rustic breakfast                 200     x     $     21.32     =     $      4264.00
Sandwich with salad               23     x     $     22.48     =     $       517.04
Raw legums                        11     x     $     17.11     =     $       188.21
Fresh stawberry                  221     x     $     28.59     =     $      6318.39
Raw legums                         2     x     $     17.11     =     $        34.22
Green smoothie                   400     x     $     17.68     =     $      7072.00
Cuban sandwiche                    2     x     $     18.50     =     $        37.00
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $        54.70
Tomatoes                           1     x     $     26.03     =     $        26.03
Plums                            250     x     $     19.18     =     $      4795.00
Fresh blueberries                334     x     $     21.01     =     $      7017.34
Green smoothie                   300     x     $     17.68     =     $      5304.00
Corn                              68     x     $     13.55     =     $       921.40
French fries                      33     x     $     18.32     =     $       604.56
Ground beef meat burger           78     x     $     11.73     =     $       914.94
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $        54.70
Sweet fresh stawberry             87     x     $     29.45     =     $      2562.15
Homemade bread                     1     x     $     17.48     =     $        17.48
Smoothie with chia seeds          46     x     $     25.26     =     $      1161.96
Corn                               1     x     $     13.55     =     $        13.55
Plums                              2     x     $     19.18     =     $        38.36
Fresh blueberries                 46     x     $     21.01     =     $       966.46
Green smoothie                     1     x     $     17.68     =     $        17.68
Corn                               2     x     $     13.55     =     $        27.10
French fries                       4     x     $     18.32     =     $        73.28
Ground beef meat burger           64     x     $     11.73     =     $       750.72
Hazelnut in black ceramic bowl     2     x     $     27.35     =     $        54.70
Sweet fresh stawberry              3     x     $     29.45     =     $        88.35
Homemade bread                   456     x     $     17.48     =     $      7970.88
Smoothie with chia seeds           2     x     $     25.26     =     $        50.52
Corn                               5     x     $     13.55     =     $        67.75
Plums                            645     x     $     19.18     =     $     12371.10
Fresh blueberries                -35     x     $     21.01     =     $      -735.35
Green smoothie                     2     x     $     17.68     =     $        35.36
Corn                             465     x     $     13.55     =     $      6300.75
French fries                      20     x     $     18.32     =     $       366.40
Ground beef meat burger            4     x     $     11.73     =     $        46.92
Hazelnut in black ceramic bowl     1     x     $     27.35     =     $        27.35
Sweet fresh stawberry            131     x     $     29.45     =     $      3857.95
Homemade bread                     9     x     $     17.48     =     $       157.32
Smoothie with chia seeds          13     x     $     25.26     =     $       328.38
Corn                             678     x     $     13.55     =     $      9186.90
Plums                            334     x     $     19.18     =     $      6406.12
Fresh blueberries               3445     x     $     21.01     =     $     72379.45
Green smoothie                  -123     x     $     17.68     =     $     -2174.64
Corn                             445     x     $     13.55     =     $      6029.75

==========================================================================================
TOTAL: $166568.23
------------------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
==========================================================================================
------------------------------------------------------------------------------------------
```

Escenario de prueba TC3

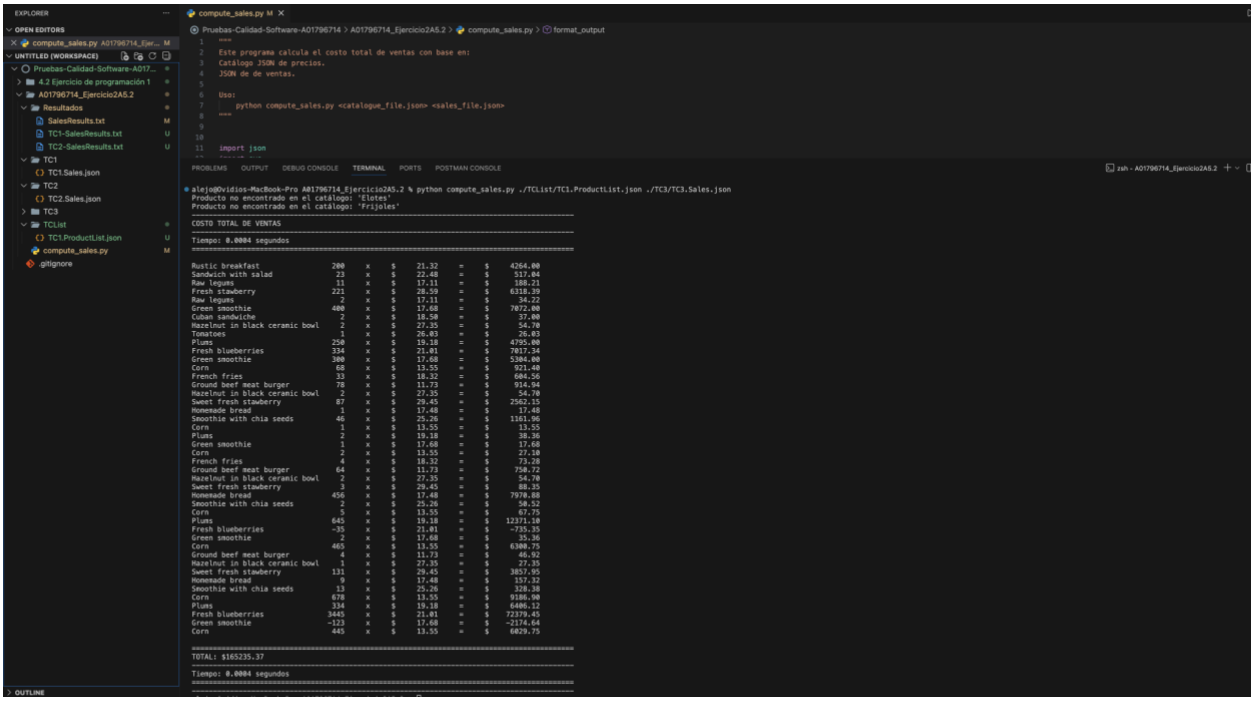
Tiempo de ejecución del programa, para procesar el escenario de prueba TC3.

0.0004 segundos.

Total

$165235.37

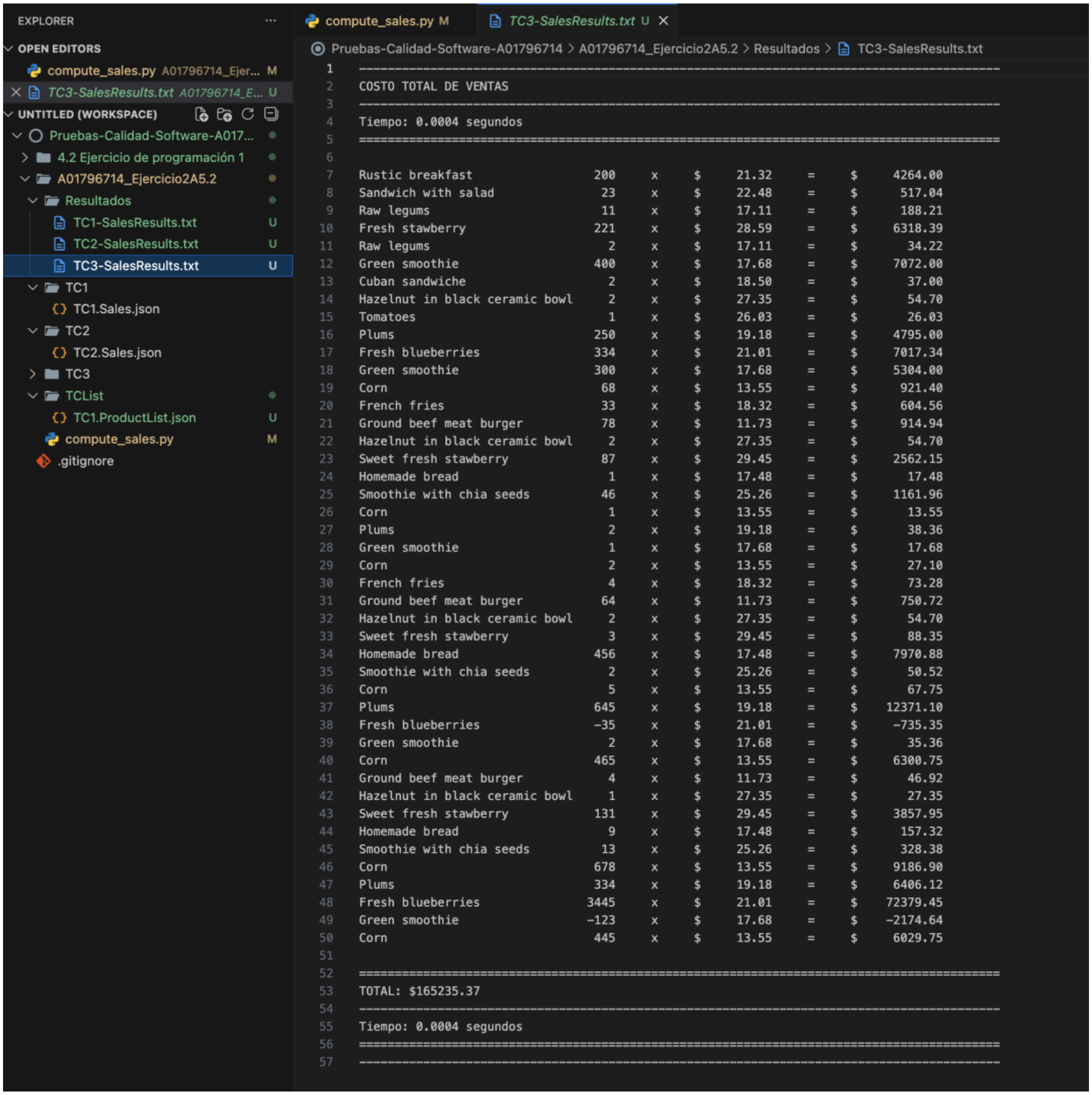
TC3: Evidencia de resultado en consola.



```python
"""
Este programa calcula el costo total de ventas con base en:
Catálogo JSON de precios.
JSON de de ventas.

Uso:
    python compute_sales.py <catalogue_file.json> <sales_file.json>
"""


import json
```

```
alejo@Ovidios-MacBook-Pro A01796714_Ejercicio2A5.2 % python compute_sales.py ./TCList/TC1.ProductList.json ./TC3/TC3.Sales.json
Producto no encontrado en el catálogo: 'Elotes'
Producto no encontrado en el catálogo: 'Frijoles'
--------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
--------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
================================================================================

Rustic breakfast                200     x     $    21.32     =     $    4264.00
Sandwich with salad              23     x     $    22.48     =     $     517.04
Raw legums                       11     x     $    17.11     =     $     188.21
Fresh stawberry                 221     x     $    28.59     =     $    6318.39
Raw legums                        2     x     $    17.11     =     $      34.22
Green smoothie                  400     x     $    17.68     =     $    7072.00
Cuban sandwiche                   2     x     $    18.50     =     $      37.00
Hazelnut in black ceramic bowl    2     x     $    27.35     =     $      54.70
Tomatoes                          1     x     $    26.03     =     $      26.03
Plums                           250     x     $    19.18     =     $    4795.00
Fresh blueberries               334     x     $    21.01     =     $    7017.34
Green smoothie                  300     x     $    17.68     =     $    5304.00
Corn                             68     x     $    13.55     =     $     921.40
French fries                     33     x     $    18.32     =     $     604.56
Ground beef meat burger          78     x     $    11.73     =     $     914.94
Hazelnut in black ceramic bowl    2     x     $    27.35     =     $      54.70
Sweet fresh stawberry            87     x     $    29.45     =     $    2562.15
Homemade bread                    1     x     $    17.48     =     $      17.48
Smoothie with chia seeds         46     x     $    25.26     =     $    1161.96
Corn                              1     x     $    13.55     =     $      13.55
Plums                             2     x     $    19.18     =     $      38.36
Green smoothie                    1     x     $    17.68     =     $      17.68
Corn                              2     x     $    13.55     =     $      27.10
French fries                      4     x     $    18.32     =     $      73.28
Ground beef meat burger          64     x     $    11.73     =     $     750.72
Hazelnut in black ceramic bowl    2     x     $    27.35     =     $      54.70
Sweet fresh stawberry             3     x     $    29.45     =     $      88.35
Homemade bread                  456     x     $    17.48     =     $    7970.88
Smoothie with chia seeds          2     x     $    25.26     =     $      50.52
Corn                              5     x     $    13.55     =     $      67.75
Plums                           645     x     $    19.18     =     $   12371.10
Fresh blueberries               -35     x     $    21.01     =     $    -735.35
Green smoothie                    2     x     $    17.68     =     $      35.36
Corn                            465     x     $    13.55     =     $    6300.75
Ground beef meat burger           4     x     $    11.73     =     $      46.92
Hazelnut in black ceramic bowl    1     x     $    27.35     =     $      27.35
Sweet fresh stawberry           131     x     $    29.45     =     $    3857.95
Homemade bread                    9     x     $    17.48     =     $     157.32
Smoothie with chia seeds         13     x     $    25.26     =     $     328.38
Corn                            678     x     $    13.55     =     $    9186.90
Plums                           334     x     $    19.18     =     $    6406.12
Fresh blueberries              3445     x     $    21.01     =     $   72379.45
Green smoothie                 -123     x     $    17.68     =     $   -2174.64
Corn                            445     x     $    13.55     =     $    6029.75

================================================================================
TOTAL: $165235.37
--------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
================================================================================
--------------------------------------------------------------------------------
```

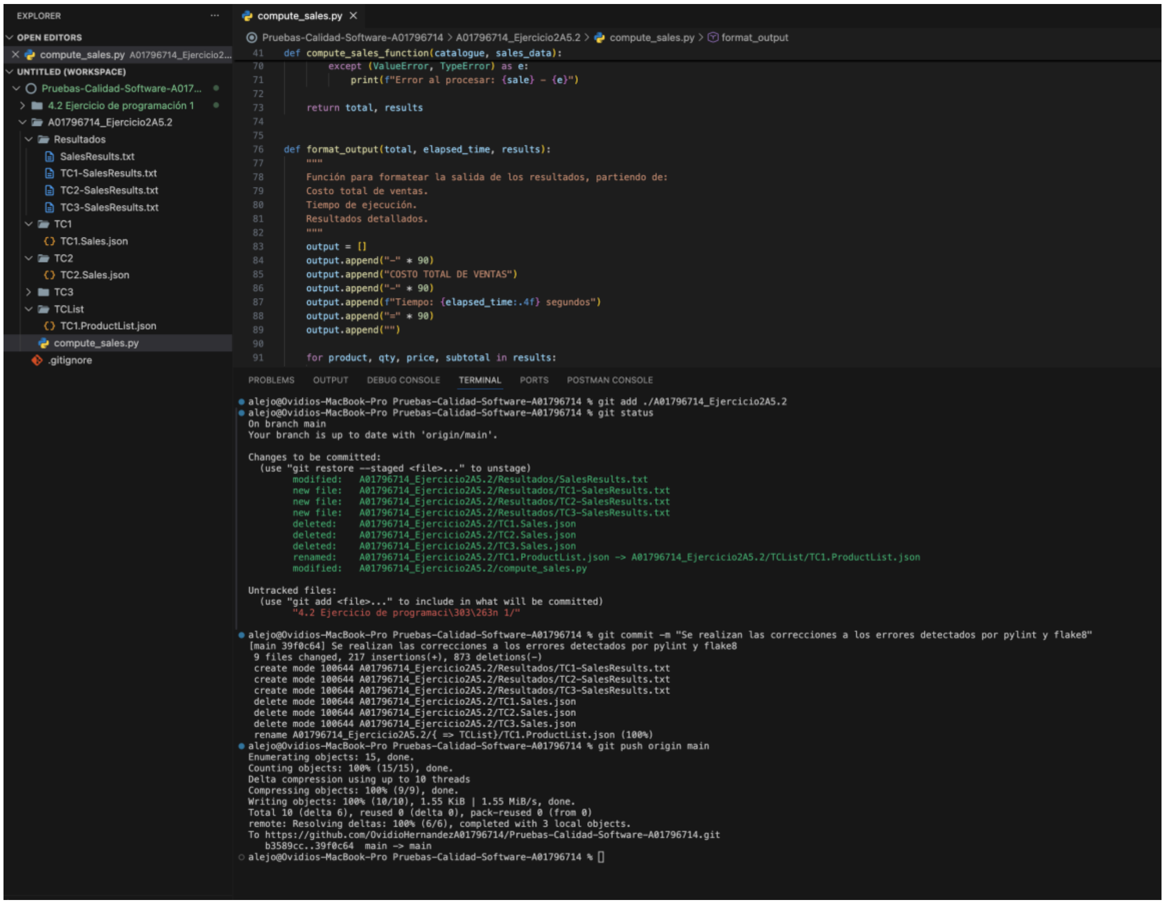
TC3: Evidencia de resultado en archivo .txt



```
------------------------------------------------------------------------------------------
COSTO TOTAL DE VENTAS
------------------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
==========================================================================================

Rustic breakfast                200     x     $     21.32     =     $     4264.00
Sandwich with salad              23     x     $     22.48     =     $      517.04
Raw legums                       11     x     $     17.11     =     $      188.21
Fresh stawberry                 221     x     $     28.59     =     $     6318.39
Raw legums                        2     x     $     17.11     =     $       34.22
Green smoothie                  400     x     $     17.68     =     $     7072.00
Cuban sandwiche                   2     x     $     18.50     =     $       37.00
Hazelnut in black ceramic bowl    2     x     $     27.35     =     $       54.70
Tomatoes                          1     x     $     26.03     =     $       26.03
Plums                           250     x     $     19.18     =     $     4795.00
Fresh blueberries               334     x     $     21.01     =     $     7017.34
Green smoothie                  300     x     $     17.68     =     $     5304.00
Corn                             68     x     $     13.55     =     $      921.40
French fries                     33     x     $     18.32     =     $      604.56
Ground beef meat burger          78     x     $     11.73     =     $      914.94
Hazelnut in black ceramic bowl    2     x     $     27.35     =     $       54.70
Sweet fresh stawberry            87     x     $     29.45     =     $     2562.15
Homemade bread                    1     x     $     17.48     =     $       17.48
Smoothie with chia seeds         46     x     $     25.26     =     $     1161.96
Corn                              1     x     $     13.55     =     $       13.55
Plums                             2     x     $     19.18     =     $       38.36
Green smoothie                    1     x     $     17.68     =     $       17.68
Corn                              2     x     $     13.55     =     $       27.10
French fries                      4     x     $     18.32     =     $       73.28
Ground beef meat burger          64     x     $     11.73     =     $      750.72
Hazelnut in black ceramic bowl    2     x     $     27.35     =     $       54.70
Sweet fresh stawberry             3     x     $     29.45     =     $       88.35
Homemade bread                  456     x     $     17.48     =     $     7970.88
Smoothie with chia seeds          2     x     $     25.26     =     $       50.52
Corn                              5     x     $     13.55     =     $       67.75
Plums                           645     x     $     19.18     =     $    12371.10
Fresh blueberries               -35     x     $     21.01     =     $     -735.35
Green smoothie                    2     x     $     17.68     =     $       35.36
Corn                            465     x     $     13.55     =     $     6300.75
Ground beef meat burger           4     x     $     11.73     =     $       46.92
Hazelnut in black ceramic bowl    1     x     $     27.35     =     $       27.35
Sweet fresh stawberry           131     x     $     29.45     =     $     3857.95
Homemade bread                    9     x     $     17.48     =     $      157.32
Smoothie with chia seeds         13     x     $     25.26     =     $      328.38
Corn                            678     x     $     13.55     =     $     9186.90
Plums                           334     x     $     19.18     =     $     6406.12
Fresh blueberries              3445     x     $     21.01     =     $    72379.45
Green smoothie                 -123     x     $     17.68     =     $    -2174.64
Corn                            445     x     $     13.55     =     $     6029.75

==========================================================================================
TOTAL: $165235.37
------------------------------------------------------------------------------------------
Tiempo: 0.0004 segundos
==========================================================================================
------------------------------------------------------------------------------------------
```

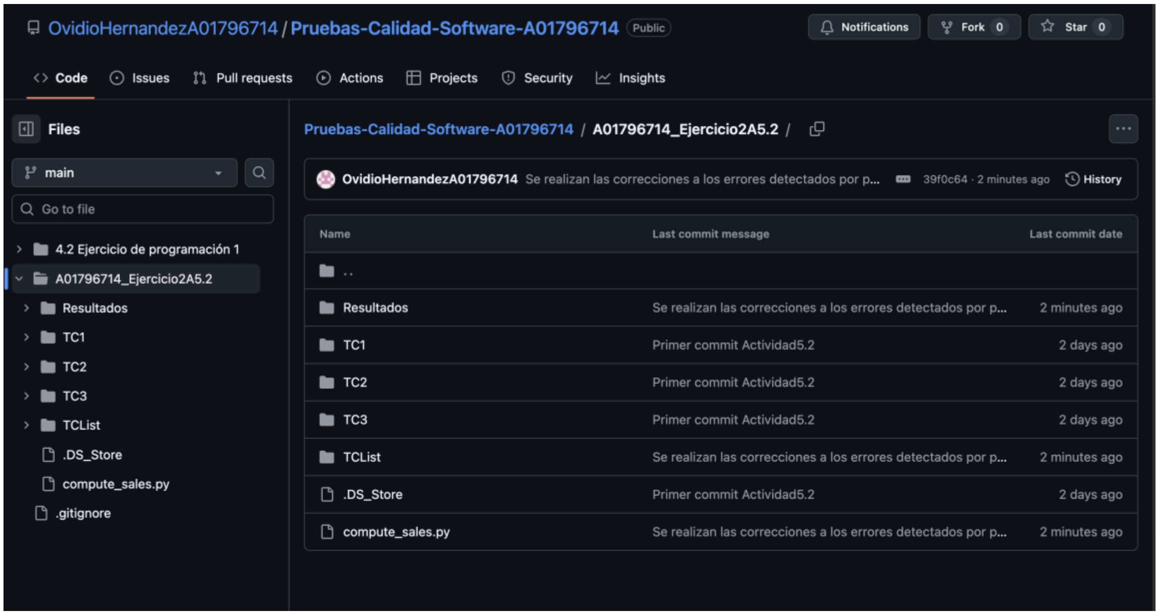
Commit realizados

Evidencia del commit realizado para subir los cambios correspondientes a la corrección de errores en el código, tras el análisis estático de código realizado con ***pylint*** y ***flake8***.



```python
def compute_sales_function(catalogue, sales_data):
        except (ValueError, TypeError) as e:
            print(f"Error al procesar: {sale} - {e}")

    return total, results


def format_output(total, elapsed_time, results):
    """
    Función para formatear la salida de los resultados, partiendo de:
    Costo total de ventas.
    Tiempo de ejecución.
    Resultados detallados.
    """
    output = []
    output.append("-" * 90)
    output.append("COSTO TOTAL DE VENTAS")
    output.append("-" * 90)
    output.append(f"Tiempo: {elapsed_time:.4f} segundos")
    output.append("=" * 90)
    output.append("")

    for product, qty, price, subtotal in results:
```

```
alejo@Ovidios-MacBook-Pro Pruebas-Calidad-Software-A01796714 % git add ./A01796714_Ejercicio2A5.2
alejo@Ovidios-MacBook-Pro Pruebas-Calidad-Software-A01796714 % git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   A01796714_Ejercicio2A5.2/Resultados/SalesResults.txt
        new file:   A01796714_Ejercicio2A5.2/Resultados/TC1-SalesResults.txt
        new file:   A01796714_Ejercicio2A5.2/Resultados/TC2-SalesResults.txt
        new file:   A01796714_Ejercicio2A5.2/Resultados/TC3-SalesResults.txt
        deleted:    A01796714_Ejercicio2A5.2/TC1.Sales.json
        deleted:    A01796714_Ejercicio2A5.2/TC2.Sales.json
        deleted:    A01796714_Ejercicio2A5.2/TC3.Sales.json
        renamed:    A01796714_Ejercicio2A5.2/TC1.ProductList.json -> A01796714_Ejercicio2A5.2/TCList/TC1.ProductList.json
        modified:   A01796714_Ejercicio2A5.2/compute_sales.py

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        "4.2 Ejercicio de programaci\303\263n 1/"

alejo@Ovidios-MacBook-Pro Pruebas-Calidad-Software-A01796714 % git commit -m "Se realizan las correcciones a los errores detectados por pylint y flake8"
[main 39f0c64] Se realizan las correcciones a los errores detectados por pylint y flake8
 9 files changed, 217 insertions(+), 873 deletions(-)
 create mode 100644 A01796714_Ejercicio2A5.2/Resultados/TC1-SalesResults.txt
 create mode 100644 A01796714_Ejercicio2A5.2/Resultados/TC2-SalesResults.txt
 create mode 100644 A01796714_Ejercicio2A5.2/Resultados/TC3-SalesResults.txt
 delete mode 100644 A01796714_Ejercicio2A5.2/TC1.Sales.json
 delete mode 100644 A01796714_Ejercicio2A5.2/TC2.Sales.json
 delete mode 100644 A01796714_Ejercicio2A5.2/TC3.Sales.json
 rename A01796714_Ejercicio2A5.2/{ => TCList}/TC1.ProductList.json (100%)
alejo@Ovidios-MacBook-Pro Pruebas-Calidad-Software-A01796714 % git push origin main
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 10 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (10/10), 1.55 KiB | 1.55 MiB/s, done.
Total 10 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 3 local objects.
To https://github.com/OvidioHernandezA01796714/Pruebas-Calidad-Software-A01796714.git
   b3589cc..39f0c64  main -> main
alejo@Ovidios-MacBook-Pro Pruebas-Calidad-Software-A01796714 % 
```



OvidioHernandezA01796714 Se realizan las correcciones a los errores detectados por p... 39f0c64 · 2 minutes ago

Name	Last commit message	Last commit date
..		
Resultados	Se realizan las correcciones a los errores detectados por p...	2 minutes ago
TC1	Primer commit Actividad5.2	2 days ago
TC2	Primer commit Actividad5.2	2 days ago
TC3	Primer commit Actividad5.2	2 days ago
TCList	Se realizan las correcciones a los errores detectados por p...	2 minutes ago
.DS_Store	Primer commit Actividad5.2	2 days ago
compute_sales.py	Se realizan las correcciones a los errores detectados por p...	2 minutes ago