

ACTIVIDAD 5.2 EJERCICIO DE PROGRAMACIÓN 2

PRUEBAS DE SOFTWARE Y ASEGURAMIENTO DE LA CALIDAD

Aarón Cortés García A01730451

Programa: Compute the total cost for all sales included in a JSON archive.

EVIDENCIA FRAGMENTOS DEL CÓDIGO

```
computeSales.py X
computeSales.py > main
1  """Program Activity 5.2 - Compute the total cost for all sales
2    included in a JSON archive
3    Aarón Cortés García - A01730451
4    """
5
6    # pylint: disable=invalid-name
7
8    import sys
9    import time
10   import json
11
12
13   def main():
14       """Main function to compute total sales cost."""
15       if len(sys.argv) != 3:
16           print("Usage: python computeSales.py <catalogue.json> <sales.json>")
17           sys.exit(1)
18
19       price_file, sales_file = sys.argv[1], sys.argv[2]
20       start_time = time.time() # Start measuring execution time
21
22       try:
23           with open(price_file, 'r', encoding='utf-8') as file:
24               product_data = json.load(file) # Load product price data
25
```

```
49         print(f"E: Product '{product}' not found in catalog.")
50     except (ValueError, TypeError):
51         print(f"Invalid sale entry ignored: {sale}") # Notify invalid data
52
53     elapsed_time = time.time() - start_time # Compute execution time
54
55     # Print results to console
56     print(f"COST OF PRODUCTS EXTRACTED FROM THE FILE {price_file}")
57     print(f"SALES INFORMATION EXTRACTED FROM THE FILE {sales_file}")
58     print(f"TOTAL COST OF SALES: {total_sales:.2f}")
59     print(f"EXECUTION TIME: {elapsed_time:.6f} seconds")
60
61     # Save results to file
62     with open("SalesResults.txt", "w", encoding="utf-8") as file:
63         file.write(f"COST OF PRODUCTS EXTRACTED FROM THE FILE {price_file}\n")
64         file.write(f"SALES INFORMATION EXTRACTED FROM THE FILE {sales_file}\n")
65         file.write(f"TOTAL COST OF SALES: {total_sales:.2f}\n")
66         file.write(f"EXECUTION TIME: {elapsed_time:.6f} seconds\n")
67
68
69   if __name__ == "__main__":
70       main()
71
```

EVIDENCIA EVALUACIÓN CON PYLINT

```
(base) PS C:\Users\aaaron\Documents\Maestría\Pruebas de software y aseguramiento de calidad\Act 5.2 Ejercicio Programación 2> pylint computeSales.py  
-----  
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

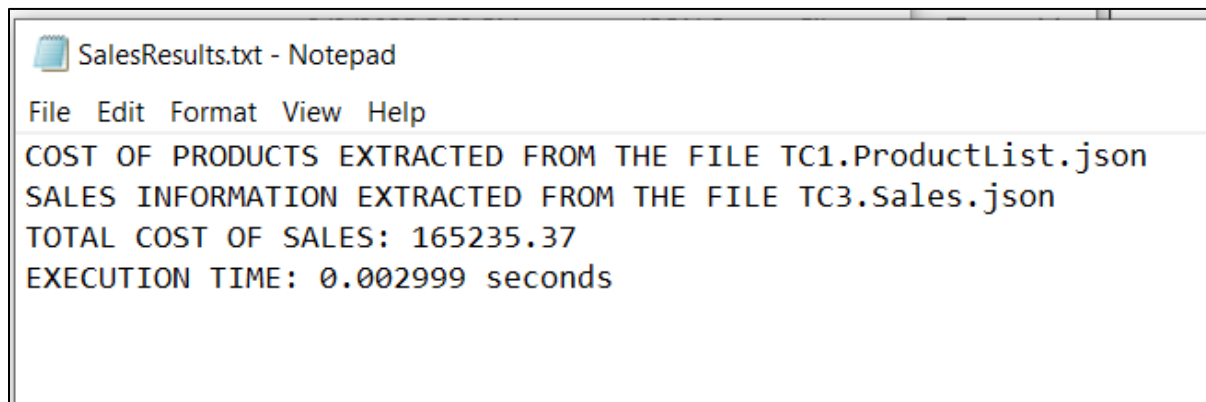
EVIDENCIA EVALUACIÓN CON FLAKE8

```
(base) PS C:\Users\aaaron\Documents\Maestría\Pruebas de software y aseguramiento de calidad\Act 5.2 Ejercicio Programación 2> flake8 computeSales.py  
○ (base) PS C:\Users\aaaron\Documents\Maestría\Pruebas de software y aseguramiento de calidad\Act 5.2 Ejercicio Programación 2> █
```

EVIDENCIA DE EJECUCIÓN DE EJEMPLO EN CONSOLA

```
(base) PS C:\Users\aaaron\Documents\Maestría\Pruebas de software y aseguramiento de calidad\Act 5.2 Ejercicio Programación 2> python computeSales.py TC1.ProductList.json TC3.Sales.json  
E: Product 'Elotes' not found in catalog.  
W: Negative quantity detected for 'Fresh blueberries'.  
E: Product 'Frijoles' not found in catalog.  
W: Negative quantity detected for 'Green smoothie'.  
COST OF PRODUCTS EXTRACTED FROM THE FILE TC1.ProductList.json  
SALES INFORMATION EXTRACTED FROM THE FILE TC3.Sales.json  
TOTAL COST OF SALES: 165235.37  
EXECUTION TIME: 0.002999 seconds
```

EVIDENCIA DE ARCHIVO GENERADO



SalesResults.txt - Notepad

File Edit Format View Help

COST OF PRODUCTS EXTRACTED FROM THE FILE TC1.ProductList.json
SALES INFORMATION EXTRACTED FROM THE FILE TC3.Sales.json
TOTAL COST OF SALES: 165235.37
EXECUTION TIME: 0.002999 seconds