**Actividad 6.2**

**Documentación de Ejercicios**

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El presente trabajo ha sido realizado cumpliendo las políticas del curso y con los criterios de evaluación de la actividad. Asimismo, establezco que el contenido de este trabajo ha sido documentado en fuentes bibliográficas autorizadas, por tanto, la información redactada no ha sido plagiada de otro documento o trabajo ajeno ni de cualquier otra fuente de carácter confidencial.

**Pruebas de Software y Aseguramiento de la Calidad** | Fecha: 05/01/2025

Exercise #1: Reservation System

Req 1. Implement a set of classes in Python that implements two abstractions:

1. Hotel

2. Reservation

3. Customers

Req 2. Implement a set of methods to handle the next persistent behaviors (stored in files):

1. Hotels

a. Create Hotel

b. Delete Hotel

c. Display Hotel information

d. Modify Hotel Information

e. Reserve a Room

f. Cancel a Reservation

2. Customer

a. Create Customer

b. Delete a Customer

c. Display Customer Information

d. Modify Customer Information

3. Reservation

a. Create a Reservation (Customer, Hotel)

b. Cancel a Reservation

You are free to decide the attributes within each class that enable the required behavior.

Req 3. Implement unit test cases to exercise the methods in each class. Use the unittest module in Python.

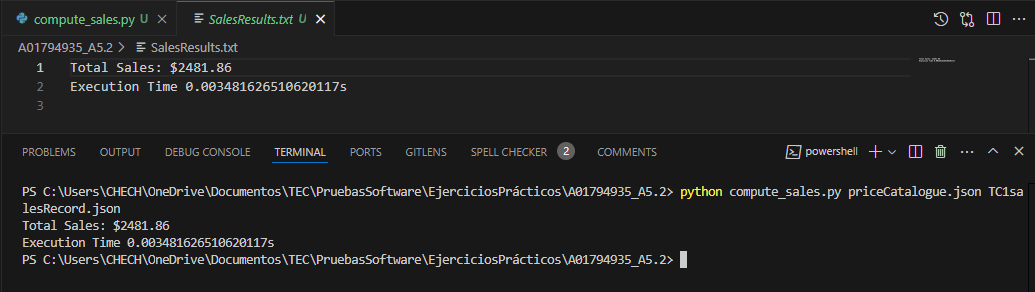
Req 4. The code coverage for all unittests should accumulate at least 85% of line coverage.

Req 5. 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 6. Be compliant with PEP8.

Req 7. The source code must show no warnings using Fleak and PyLint.

* Results



Captura de pantalla de un celular

Descripción generada automáticamente

Texto

Descripción generada automáticamente

* Pylint

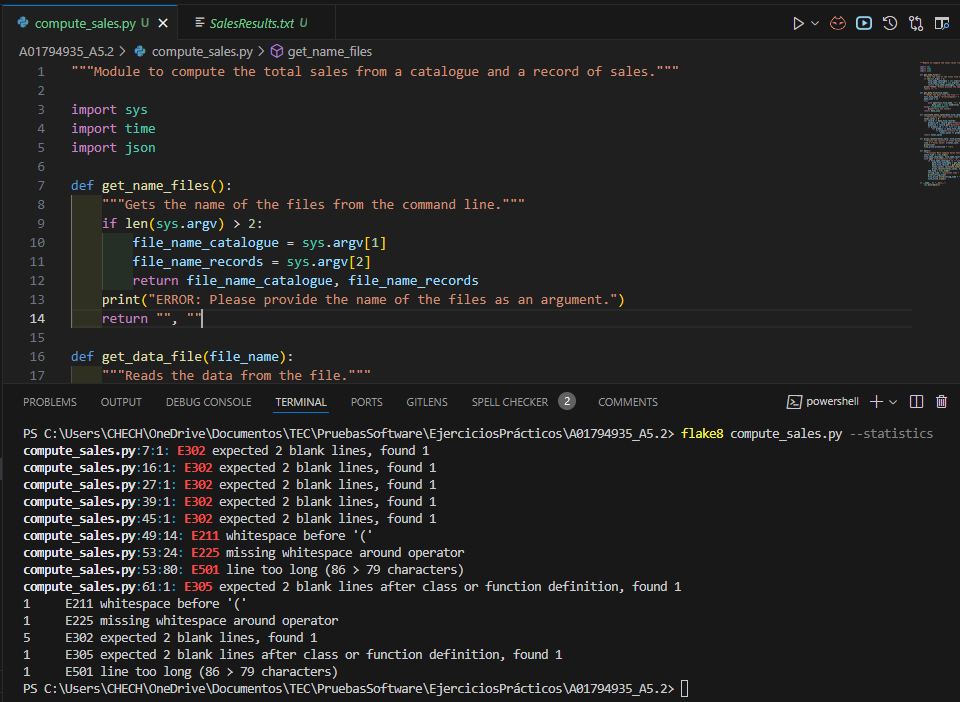
It was necessary to change the file name because don’t compliance with the snake\_case naming style.

Texto

Descripción generada automáticamente

Due that I remember the previous suggestions in the last activity, I prevent lint issues.

* Flake8



Check and fix the Flake8 issues, and corroborate that function is executing correctly.

