En cuanto a la ejecución de pruebas unitarias fue para mi muy complejo, sin embargo realice N archivos en Colab, allí me fallo demasiado porque donde se encontraban las clases , Colab le colocaba unas cabeceras que no leía correctamente el archivo.

Posteriormente decidí hacerlo todo en Visual estudio, tuve que ajustar el archivo donde estaba definidas las clases, así mismo arme dos archivos para pruebas unitarias del cuales adjunto, sin embargo si final pude sacar la ejecución correcta de las pruebas, sin embargo quede con algunos vacíos, ya que este tipo de desarrollo de pruebas unitarias no era algo que conociera.

Con el archivo de pruebas unitarias "testing_py.py" no lo pude sacar adelante y obtuve:

```
MacBook-de-Maritza:downloads Maritza$ python3 -m unittest testing_py.py
FFF..FF.
======================================================================
FAIL: test_eliminar_cliente (testing_py.TestCliente.test_eliminar_cliente)
----------------------------------------------------------------------
Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1424, in patched
    return func(*newargs, **newkeywargs)
  File "/Users/Maritza/Downloads/testing_py.py", line 104, in test_eliminar_cliente
    mock_print.assert_any_call("Cliente con ID 5 eliminado.")
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1048, in assert_any_call
    raise AssertionError(
      '%s call not found' % expected_string
    ) from cause
AssertionError: print('Cliente con ID 5 eliminado.') call not found

======================================================================
FAIL: test_modificar_cliente (testing_py.TestCliente.test_modificar_cliente)
----------------------------------------------------------------------
Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1424, in patched
    return func(*newargs, **newkeywargs)
  File "/Users/Maritza/Downloads/testing_py.py", line 94, in test_modificar_cliente
    mock_print.assert_any_call("Cliente actualizado exitosamente.")
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1048, in assert_any_call
    raise AssertionError(
      '%s call not found' % expected_string
    ) from cause
AssertionError: print('Cliente actualizado exitosamente.') call not found

======================================================================
```

FAIL: test_mostrar_info_cliente (testing_py.TestCliente.test_mostrar_info_cliente)

Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1424, in patched
    return func(*newargs, **newkeywargs)
  File "/Users/Maritza/Downloads/testing_py.py", line 113, in test_mostrar_info_cliente
    mock_print.assert_any_call(json.dumps(cliente_data, indent=4, ensure_ascii=False))
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~^^^
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1048, in assert_any_call
    raise AssertionError(
      '%s call not found' % expected_string
) from cause
AssertionError: print('{\n   "id_cliente": 4,\n   "nombre": "Carlos Méndez",\n   "email": "carlos.mendez@example.com"\n}') call not found

==
FAIL: test_mostrar_info_hotel (testing_py.TestHotel.test_mostrar_info_hotel)

Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1424, in patched
    return func(*newargs, **newkeywargs)
  File "/Users/Maritza/Downloads/testing_py.py", line 64, in test_mostrar_info_hotel
    mock_print.assert_any_call(json.dumps(hotel_data, indent=4, ensure_ascii=False))
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~^^^
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1048, in assert_any_call
    raise AssertionError(
      '%s call not found' % expected_string
) from cause
AssertionError: print('{\n   "id_hotel": 2,\n   "nombre": "Hotel Dos",\n   "ubicacion": "Ciudad Dos",\n   "capacidad": 70,\n   "estrellas": 3\n}')
call not found

==
FAIL: test_cancelar_reserva (testing_py.TestReserva.test_cancelar_reserva)

Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1424, in patched
    return func(*newargs, **newkeywargs)
  File "/Users/Maritza/Downloads/testing_py.py", line 144, in test_cancelar_reserva
    mock_print.assert_any_call("Reserva con ID 1 cancelada.")
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/unittest/mock.py", line 1048, in assert_any_call
    raise AssertionError(
      '%s call not found' % expected_string
) from cause
AssertionError: print('Reserva con ID 1 cancelada.') call not found

----
Ran 8 tests in 0.043s

FAILED (failures=5)
MacBook-de-Maritza:downloads Maritza$

MacBook-de-Maritza:downloads Maritza$ coverage report
Name   Stmts   Miss Cover

Con el archivo de pruebas unitarias "testing_turispo.py" obtuve:

MacBook-de-Maritza:downloads Maritza$ python3 -m unittest testing_turismo.py

FECliente agregado exitosamente.

EHotel agregado exitosamente.

EReserva agregada exitosamente.

EFEHotel con ID 1 eliminado.

FEEE

==

ERROR: test_cancelar_reserva (testing_turismo.TestSistemaReservas.test_cancelar_reserva)

Verifica cancelación de reserva

Traceback (most recent call last):

  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown

    if os.path.exists(file):

       ^^

NameError: name 'os' is not defined. Did you forget to import 'os'?

==

ERROR: test_crear_cliente (testing_turismo.TestSistemaReservas.test_crear_cliente)

Verifica creación de cliente

Traceback (most recent call last):

  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown

    if os.path.exists(file):

       ^^

NameError: name 'os' is not defined. Did you forget to import 'os'?

==

ERROR: test_crear_hotel (testing_turismo.TestSistemaReservas.test_crear_hotel)

Verifica creación de un hotel

Traceback (most recent call last):

  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown

    if os.path.exists(file):

       ^^

NameError: name 'os' is not defined. Did you forget to import 'os'?

==

ERROR: test_crear_reserva (testing_turismo.TestSistemaReservas.test_crear_reserva)

Verifica creación de reserva

Traceback (most recent call last):

  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown

    if os.path.exists(file):

       ^^

NameError: name 'os' is not defined. Did you forget to import 'os'?

==
ERROR: test_eliminar_cliente (testing_turismo.TestSistemaReservas.test_eliminar_cliente)
Verifica eliminación de cliente

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown
    if os.path.exists(file):
       ^^
NameError: name 'os' is not defined. Did you forget to import 'os'?

==
ERROR: test_eliminar_hotel (testing_turismo.TestSistemaReservas.test_eliminar_hotel)
Verifica eliminación de hotel

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown
    if os.path.exists(file):
       ^^
NameError: name 'os' is not defined. Did you forget to import 'os'?

==
ERROR: test_escribir_archivo (testing_turismo.TestSistemaReservas.test_escribir_archivo)
Verifica escritura de archivo

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown
    if os.path.exists(file):
       ^^
NameError: name 'os' is not defined. Did you forget to import 'os'?

==
ERROR: test_leer_archivo (testing_turismo.TestSistemaReservas.test_leer_archivo)
Verifica lectura de archivo

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 52, in tearDown
    if os.path.exists(file):
       ^^
NameError: name 'os' is not defined. Did you forget to import 'os'?

==
FAIL: test_cancelar_reserva (testing_turismo.TestSistemaReservas.test_cancelar_reserva)
Verifica cancelación de reserva

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 108, in test_cancelar_reserva
    self.assertEqual(len(data), 0)
    ~~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^
AssertionError: 1 != 0

==
FAIL: test_eliminar_cliente (testing_turismo.TestSistemaReservas.test_eliminar_cliente)

Verifica eliminación de cliente

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 95, in test_eliminar_cliente
    self.assertEqual(len(data), 0)
     ~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^

AssertionError: 1 != 0

==

FAIL: test_eliminar_hotel (testing_turismo.TestSistemaReservas.test_eliminar_hotel)

Verifica eliminación de hotel

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 81, in test_eliminar_hotel
    self.assertEqual(len(data), 1)
     ~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^

AssertionError: 2 != 1

Ran 8 tests in 0.046s

FAILED (failures=3, errors=8)
MacBook-de-Maritza:downloads Maritza$ python3 -m unittest testing_turismo.py
FCliente agregado exitosamente.
.Hotel agregado exitosamente.
.Reserva agregada exitosamente.
.FHotel con ID 1 eliminado.
F..
==
FAIL: test_cancelar_reserva (testing_turismo.TestSistemaReservas.test_cancelar_reserva)
Verifica cancelación de reserva

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 109, in test_cancelar_reserva
    self.assertEqual(len(data), 0)
     ~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^

AssertionError: 1 != 0

==
FAIL: test_eliminar_cliente (testing_turismo.TestSistemaReservas.test_eliminar_cliente)
Verifica eliminación de cliente

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 96, in test_eliminar_cliente
    self.assertEqual(len(data), 0)
     ~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^

AssertionError: 1 != 0

==
FAIL: test_eliminar_hotel (testing_turismo.TestSistemaReservas.test_eliminar_hotel)
Verifica eliminación de hotel

Traceback (most recent call last):
  File "/Users/Maritza/Downloads/testing_turismo.py", line 82, in test_eliminar_hotel

```
        self.assertEqual(len(data), 1)
        ~~~~~~~~~~~~~~~~~^^^^^^^^^^^^^^

AssertionError: 2 != 1


----------------------------------------------------------------------
Ran 8 tests in 0.033s


FAILED (failures=3)
MacBook-de-Maritza:downloads Maritza$ python3 -m unittest testing_turismo.py
.Cliente agregado exitosamente.
.Hotel agregado exitosamente.
.Reserva agregada exitosamente.
..Hotel con ID 11 eliminado.
...
----------------------------------------------------------------------
Ran 8 tests in 0.037s


OK
MacBook-de-Maritza:downloads Maritza$ coverage run -m unittest testing_turismo.py
bash: coverage: command not found
MacBook-de-Maritza:downloads Maritza$ pip install coverage
Collecting coverage
  Downloading coverage-7.6.12-cp313-cp313-macosx_10_13_x86_64.whl.metadata (8.5 kB)
Downloading coverage-7.6.12-cp313-cp313-macosx_10_13_x86_64.whl (208 kB)
Installing collected packages: coverage
Successfully installed coverage-7.6.12

[notice] A new release of pip is available: 25.0 -> 25.0.1
[notice] To update, run: pip install --upgrade pip
MacBook-de-Maritza:downloads Maritza$ pip3 install coverage
Requirement already satisfied: coverage in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (7.6.12)

[notice] A new release of pip is available: 25.0 -> 25.0.1
[notice] To update, run: pip install --upgrade pip
MacBook-de-Maritza:downloads Maritza$ coverage run -m unittest testing_turismo.py
.Cliente agregado exitosamente.
.Hotel agregado exitosamente.
.Reserva agregada exitosamente.
..Hotel con ID 11 eliminado.
...
----------------------------------------------------------------------
Ran 8 tests in 0.058s


OK
MacBook-de-Maritza:downloads Maritza$ coverage report
Name                   Stmts   Miss  Cover
----------------------------------------
hoteles_reservas_py.py   163     79    52%
testing_turismo.py        70      1    99%
----------------------------------------
TOTAL                    233     80    66%
MacBook-de-Maritza:downloads Maritza$
```