



Instituto Tecnológico y de Estudios
Superiores de Monterrey

6.2 Ejercicio de programación 3 y pruebas de unidad

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Profesores

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Pruebas de software y aseguramiento de la calidad

Fecha: 22/02/2026

Req 8. Be compliant with PEP8.

Pylint

```
Problems  Output  Debug Console  Terminal  Ports
Python + v @ [] [X] ...

it -m "style: fix pylint warnings and add module docstring"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
● PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> git push
Everything up-to-date
● PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> pylint h
otel_reservation.py

-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
○ PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2>
```

Flake8

```
Problems  Output  Debug Console  Terminal  Ports
Python + v @ [] [X] ...

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

● PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> flake8 h
otel_reservation.py
hotel_reservation.py:3:80: E501 line too long (80 > 79 characters)
hotel_reservation.py:4:80: E501 line too long (81 > 79 characters)
hotel_reservation.py:218:1: W293 blank line contains whitespace
hotel_reservation.py:297:1: E302 expected 2 blank lines, found 1
hotel_reservation.py:478:1: E302 expected 2 blank lines, found 1
hotel_reservation.py:591:55: E127 continuation line over-indented for visual indent
hotel_reservation.py:625:1: E305 expected 2 blank lines after class or function definition, found 1
● PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> flake8 h
otel_reservation.py
○ PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2>
```

Unit test

```
Problems Output Debug Console Terminal Ports
PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> python -m unittest unit_test.py -v
test_customer_create_io_error (unit_test.TestCustomer.test_customer_create_io_error)
Test customer creation with IO error. ... Error al escribir en archivo: Disk full
ok
test_customer_create_multiple (unit_test.TestCustomer.test_customer_create_multiple)
Test creating multiple customers with auto-incrementing IDs. ... Cliente creado: ID 1, Customer 1
Cliente creado: ID 2, Customer 2
ok
test_customer_create_success (unit_test.TestCustomer.test_customer_create_success)
Test successful customer creation. ... Cliente creado: ID 1, John Doe
ok
test_customer_create_with_invalid_existing_data (unit_test.TestCustomer.test_customer_create_with_invalid_existing_data)
Test customer creation with corrupted existing data. ... Cliente creado: ID 1, John Doe
ok
test_customer_delete_nonexistent (unit_test.TestCustomer.test_customer_delete_nonexistent)
Test deleting a non-existent customer. ... Error: El archivo Customers.json no existe.
```

Coverage

```
Problems Output Debug Console Terminal Ports
Wrote HTML report to htmlcov/index.html
PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2> coverage report -m
Name Stmts Miss Cover Missing
-----
hotel_reservation.py 448 46 90% 345-348, 620-622, 626-692
unit_test.py 565 7 99% 19, 271, 319, 537, 608, 723, 822
TOTAL 1013 53 95%
PS D:\Documentos\Maestria Inteligencia artificial\Pruebas de software y aseguramiento de la calidad\A01092551_6.2>
```

← → ↻ file:///D:/Documentos/Maestria Inteligencia artificial/Pruebas de software y aseguramiento de la calidad/A01092551_6.2/htmlcov/index.html

Coverage report: 95%

Files Functions Classes

coverage.py v7.13.4, created at 2026-02-23 00:54 -0600

| File ▲ | statements | missing | excluded | coverage |
|----------------------|-------------|-----------|----------|------------|
| hotel_reservation.py | 448 | 46 | 0 | 90% |
| unit_test.py | 565 | 7 | 0 | 99% |
| Total | 1013 | 53 | 0 | 95% |

coverage.py v7.13.4, created at 2026-02-23 00:54 -0600