



INSTITUTO TECNOLÓGICO Y DE ESTUDIOS  
SUPERIORES DE MONTERREY

## Actividad 6.2. Ejercicio de programación 3

Mónica María del Rivero Sánchez - A01362368

**Pruebas de software y aseguramiento de la calidad**

**22 de febrero del 2026**

## Hotel Test Results

```
(base) PS C:\Users\derivero.mx & C:/Users/derivero.mx/AppData/Local/Programs/Python/Python313/python.exe c:/Users/derivero.mx/a01362368_NumerodeActividadA6.2/tests/test_hotel.py
[ERROR] Hotel 'H1' already exists.
..[ERROR] Hotel 'GHOST' not found.
.... Hotel ...
    hotel_id: H3
    name: Mountain Lodge
    location: Denver
    total_rooms: 15
    available_rooms: 15
    reservations: []
. [ERROR] Hotel 'GHOST' not found.
..[ERROR] Hotel 'GHOST' not found.
.[WARN] Field 'color' is not modifiable or unknown.
.[ERROR] Failed to load hotels data: Expecting value: line 1 column 1 (char 0)
..[ERROR] Failed to save hotels data: disk full
..[ERROR] Hotel 'GHOST' not found.
.[ERROR] Reservation 'GHOST_RES' not in hotel.
..[ERROR] Hotel 'GHOST' not found.
.[ERROR] No available rooms in hotel 'R1'.
```

## Customer Test Results

```
• (base) PS C:\Users\derivero.mx & C:/Users/derivero.mx/AppData/Local/Programs/Python/Python313/python.exe c:/Users/derivero.mx/a01362368_NumerodeActividadA6.2/tests/test_customer.py
[ERROR] Customer 'C1' already exists.
..[ERROR] Customer 'GHOST' not found.
.... Customer ...
    customer_id: C3
    name: Carol
    email: carol@x.com
    phone: 555-9999
. [ERROR] Customer 'GHOST' not found.
..[ERROR] Customer 'GHOST' not found.
.[WARN] Field 'age' is not modifiable or unknown.
.[ERROR] Failed to load customers data: Expecting value: line 1 column 1 (char 0)
..[ERROR] Failed to save customers data: no space
.
-----
Ran 12 tests in 0.022s
OK
```

## Reservations Test Results

```
OK
(base) PS C:\Users\derivero.mx & C:/Users/derivero.mx/AppData/Local/Programs/Python/Python313/python.exe c:/Users/derivero.mx/a01362368_NumerodeActividadA6.2/tests/test_reservation.py
[ERROR] Reservation 'R4' already cancelled.
..[ERROR] Reservation 'GHOST' not found.
..[ERROR] Reservation 'R1' already exists.
.[ERROR] Hotel 'GHOST' not found.
..[ERROR] No available rooms in hotel 'H_SMALL'.
..[ERROR] Failed to load reservations data: Expecting value: line 1 column 1 (char 0)
..[ERROR] Failed to save reservations data: disk full
.
-----
Ran 10 tests in 0.038s
```

## Flake8 results

### First Run

```
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2> python -m flake8 models/ tests/ main.py --max-line-length=99
models/hotel.py:105:15: F541 f-string is missing placeholders
models/reservation.py:5:1: F401 'datetime.date' imported but unused
models/reservation.py:118:1: W293 blank line contains whitespace
models/reservation.py:118:5: W292 no newline at end of file
tests/test_customer.py:6:1: E402 module level import not at top of file
tests/test_customer.py:7:1: E402 module level import not at top of file
tests/test_customer.py:10:1: E402 module level import not at top of file
tests/test_customer.py:10:1: E402 module level import not at top of file
tests/test_hotel.py:3:1: F401 'json' imported but unused
tests/test_hotel.py:7:1: E402 module level import not at top of file
tests/test_hotel.py:8:1: E402 module level import not at top of file
tests/test_hotel.py:10:1: E402 module level import not at top of file
tests/test_hotel.py:11:1: E402 module level import not at top of file
tests/test_reservation.py:6:1: E402 module level import not at top of file
tests/test_reservation.py:7:1: E402 module level import not at top of file
tests/test_reservation.py:9:1: E402 module level import not at top of file
tests/test_reservation.py:10:1: E402 module level import not at top of file
tests/test_reservation.py:11:1: E402 module level import not at top of file
tests/test_reservation.py:12:1: E402 module level import not at top of file
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2> git status
On branch main
Your branch is up to date with 'origin/main'.
```

## End Result

```
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2> python -m flake8 models/ tests/ main.py --max-line-length=99
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2>
```

## Pylint results

### First Run

```
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2> python -m pylint models/ tests/ main.py
***** Module models.reservation
models\reservation.py:35:4: R0913: Too many arguments (6/5) (too-many-arguments)
models\reservation.py:35:4: R0917: Too many positional arguments (6/5) (too-many-positional-arguments)
models\reservation.py:75:8: C0415: Import outside toplevel (models.hotel.Hotel) (import-outside-toplevel)
models\reservation.py:100:8: C0415: Import outside toplevel (models.hotel.Hotel) (import-outside-toplevel)
***** Module tests.test_customer
tests\test_customer.py:21:21: W0212: Access to a protected member _load_customers of a client class (protected-access)
tests\test_customer.py:28:21: W0212: Access to a protected member _load_customers of a client class (protected-access)
tests\test_customer.py:34:12: W0212: Access to a protected member _save_customers of a client class (protected-access)
***** Module tests.test_hotel
tests\test_hotel.py:21:21: W0212: Access to a protected member _load_hotels of a client class (protected-access)
tests\test_hotel.py:28:21: W0212: Access to a protected member _load_hotels of a client class (protected-access)
tests\test_hotel.py:34:12: W0212: Access to a protected member _save_hotels of a client class (protected-access)
***** Module tests.test_reservation
tests\test_reservation.py:23:21: W0212: Access to a protected member _load_reservations of a client class (protected-access)
tests\test_reservation.py:30:21: W0212: Access to a protected member _load_reservations of a client class (protected-access)
tests\test_reservation.py:36:12: W0212: Access to a protected member _save_reservations of a client class (protected-access)
***** Module main
main.py:1:0: R0801: Similar lines in 2 files
==models.customer:[10:17]
==models.hotel:[10:17]
    os.makedirs(os.path.dirname(DATA_FILE), exist_ok=True)
    if not os.path.exists(DATA_FILE):
        return {}
    try:
        with open(DATA_FILE, 'r', encoding='utf-8') as f:
            return json.load(f)
    except (json.JSONDecodeError, IOError) as e: (duplicate-code)
main.py:1:0: R0801: Similar lines in 2 files
==models.customer:[18:28]
==models.hotel:[18:28]
    return {}

def _save_hotels(data):
    """Persist hotels dict to JSON file."""
    os.makedirs(os.path.dirname(DATA_FILE), exist_ok=True)
    try:
        with open(DATA_FILE, 'w', encoding='utf-8') as f:
            json.dump(data, f, indent=4)
    except IOError as e: (duplicate-code)

-----
Your code has been rated at 9.70/10
```

## End Result

```
-----  
Your code has been rated at 9.14/10 (previous run: 9.14/10, +0.00)  
(base) PS C:\Users\delrivero.m\a01362368_NumerodeActividadA6.2> python -m pylint models/ tests/ main.py  
-----
```