



**Instituto Tecnológico y de Estudios Superiores de  
Monterrey**  
**Escuela de Ingeniería y Ciencias**  
**Pruebas de software y aseguramiento de la calidad (Gpo 10)**

## **Tarea 6.2 Ejercicio de programación 3**

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## Pylint and flake8

```
❶ (.venv) (base) ignacioaguilar@MacBook-Pro-de-Ignacio A00819762_A6.2 % flake8 hotel.py customer.py reservation.py reservationsystem.py
customer.py:65:80: E501 line too long (80 > 79 characters)
reservation.py:65:80: E501 line too long (83 > 79 characters)
reservation.py:98:80: E501 line too long (81 > 79 characters)
❷ (.venv) (base) ignacioaguilar@MacBook-Pro-de-Ignacio A00819762_A6.2 % pylint hotel.py customer.py reservation.py reservationsystem.py

***** Module hotel
hotel.py:134:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel.py:144:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel.py:154:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel.py:162:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel.py:172:4: C0116: Missing function or method docstring (missing-function-docstring)
hotel.py:182:4: C0116: Missing function or method docstring (missing-function-docstring)
***** Module customer
customer.py:96:4: C0116: Missing function or method docstring (missing-function-docstring)
customer.py:106:4: C0116: Missing function or method docstring (missing-function-docstring)
customer.py:116:4: C0116: Missing function or method docstring (missing-function-docstring)
customer.py:124:4: C0116: Missing function or method docstring (missing-function-docstring)
***** Module reservation
reservation.py:16:0: R0903: Too few public methods (1/2) (too-few-public-methods)
***** Module reservationsystem
reservationsystem.py:24:0: R0914: Too many local variables (16/15) (too-many-locals)
reservationsystem.py:24:0: R0912: Too many branches (26/12) (too-many-branches)
reservationsystem.py:24:0: R0915: Too many statements (73/50) (too-many-statements)
reservationsystem.py:117:0: R0912: Too many branches (17/12) (too-many-branches)

-----
Your code has been rated at 9.64/10 (previous run: 9.64/10, +0.00)
```

## Menu

```
❶ (.venv) (base) ignacioaguilar@MacBook-Pro-de-Ignacio A00819762_A6.2 % python reservationsystem.py

=== SISTEMA DE RESERVAS ===
1. Gestionar Hoteles
2. Gestionar Clientes
3. Gestionar Reservas
0. Salir
```

## Gestionar Hoteles

```
--- MENÚ HOTELES ---
1. Crear hotel
2. Buscar/Mostrar hotel
3. Modificar hotel
4. Eliminar hotel
5. Reservar habitación
6. Cancelar reserva de habitación
0. Volver al menú principal
Seleccione una opción: 1
```

```
Seleccione una opción: 1
ID del hotel (ej. H001): H002
Nombre del hotel: Copa Cabana
Ubicación del hotel: Cancun
# total de habitaciones: 3000
Hotel H002 creado correctamente.
```

## JSON Hotel

```
{
  "H001": {
    "hotel_id": "H001",
    "name": "Hotel Brisas del Mar",
    "location": "Santo Domingo, RD",
    "total_rooms": 40,
    "reserved_rooms": 1
  },
  "H002": {
    "hotel_id": "H002",
    "name": "Copa Cabana",
    "location": "Cancun",
    "total_rooms": 3000,
    "reserved_rooms": 0
  }
}
```

Gestionar Clientes

Seleccione una opción: 0

=== SISTEMA DE RESERVAS ===

1. Gestionar Hoteles
2. Gestionar Clientes
3. Gestionar Reservas
0. Salir

Seleccione una opción: 2

--- MENÚ CLIENTES ---

1. Crear cliente
2. Buscar/Mostrar cliente
3. Modificar cliente
4. Eliminar cliente
0. Volver al menú principal

Seleccione una opción: █

Seleccione una opción: 1

ID del cliente (ej. C001): C002

Nombre del cliente: Carlos Emilio

Correo electrónico: c.aguilar@yahoo.com

Cliente C002 creado correctamente.

#### JSON Cliente

```
{
  "C001": {
    "customer_id": "C001",
    "name": "Ignacio Aguilar",
    "email": "ignacioag.iid@gmail.com"
  },
  "C002": {
    "customer_id": "C002",
    "name": "Carlos Emilio",
    "email": "c.aguilar@yahoo.com"
  }
}
```

#### Gestionar Reservas

Seleccione una opción: 0

=== SISTEMA DE RESERVAS ===

- 1. Gestionar Hoteles
- 2. Gestionar Clientes
- 3. Gestionar Reservas
- 0. Salir

Seleccione una opción: 3

--- MENÚ RESERVAS ---

- 1. Crear reserva
- 2. Mostrar reserva
- 3. Cancelar reserva
- 0. Volver al menú principal

Seleccione una opción: 1

ID de la reserva (ej. R001): R002

ID del hotel: H002

ID del cliente: C002

Fecha (YYYY-MM-DD)2025-06-16

Reserva R002 creada.

**JSON Reservas**

```
{  
  "R001": {  
    "reservation_id": "R001",  
    "hotel_id": "H001",  
    "customer_id": "C001",  
    "date_str": "2025-03-03"  
  },  
  "R002": {  
    "reservation_id": "R002",  
    "hotel_id": "H002",  
    "customer_id": "C002",  
    "date_str": "2025-06-16"  
  }  
}
```