

Actividad 6.2. Ejercicio de programación 3.

Análisis de Errores de Pylint – PEP 8

- Resultados al ejecutar: `pylint test_cases.py`
- Resultados al ejecutar: `pylint json_handler.py`
- Resultados al ejecutar: `pylint reservation_system.py`

The screenshot shows a VS Code editor with the file `test_cases.py` open. The file contains the following code:

```
1 """Importing Unit test for testing classes"""
2 import unittest
3 from reservation_system import Hotel, Customer, Reservation
4
5 HOTEL_FILE = "h_rec.json"
6 CUSTOMER_FILE = "cust_rec.json"
7 RESERVATION_FILE = "reservation_record.json"
8
9
10 class TestHotel(unittest.TestCase):
11     """Unit tests for the Hotel class."""
12
13     def setUp(self):
14         """Setup a test hotel instance before each test."""
15         self.hotel = Hotel("TestHotel", "TestCity", 10)
16         self.hotel.define_hotel()
17
18     def tearDown(self):
19         """Cleanup after each test."""
20         self.hotel.delete_hotel()
21
22     def test_define_hotel(self):
23         """Test hotel creation."""
24         self.assertIn("TestHotel", self.hotel.h_rec)
```

The terminal output shows the results of running `pylint` on the three files:

```
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint test_cases.py
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint json_handler.py
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint reservation_system.py
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 %
```

Análisis de Errores de Flake8

- Resultados al ejecutar: flake8 test_cases.py
- Resultados al ejecutar: flake8 json_handler.py
- Resultados al ejecutar: flake8 reservation_system.py

The screenshot shows a VS Code editor with a project named 'A01794940_Actividad6.2'. The Explorer sidebar on the left lists files: `__pycache__`, `htmlcov`, `.coverage`, `json_handler.py`, `reservation_system.py`, and `test_cases.py`. The main editor displays the content of `test_cases.py`, which includes imports for `unittest` and the `reservation_system` module, and a `TestHotel` class with several test methods. Below the editor, the TERMINAL panel shows the output of running `pylint` and `flake8` on the three files. All three tools report a score of 10.00/10, indicating no errors were found.

```
test_cases.py
1  """Importing Unit test for testing classes"""
2  import unittest
3  from reservation_system import Hotel, Customer, Reservation
4
5  HOTEL_FILE = "h_rec.json"
6  CUSTOMER_FILE = "cust_rec.json"
7  RESERVATION_FILE = "reservation_record.json"
8
9
10 class TestHotel(unittest.TestCase):
11     """Unit tests for the Hotel class."""
12
13     def setUp(self):
14         """Setup a test hotel instance before each test."""
15         self.hotel = Hotel("TestHotel", "TestCity", 10)
16         self.hotel.define_hotel()
17
18     def tearDown(self):
19         """Cleanup after each test."""
20         self.hotel.delete_hotel()
21
22     def test_define_hotel(self):
23         """Test hotel creation."""
24         self.assertIn("TestHotel", self.hotel.h_rec)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint test_cases.py

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

• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint json_handler.py

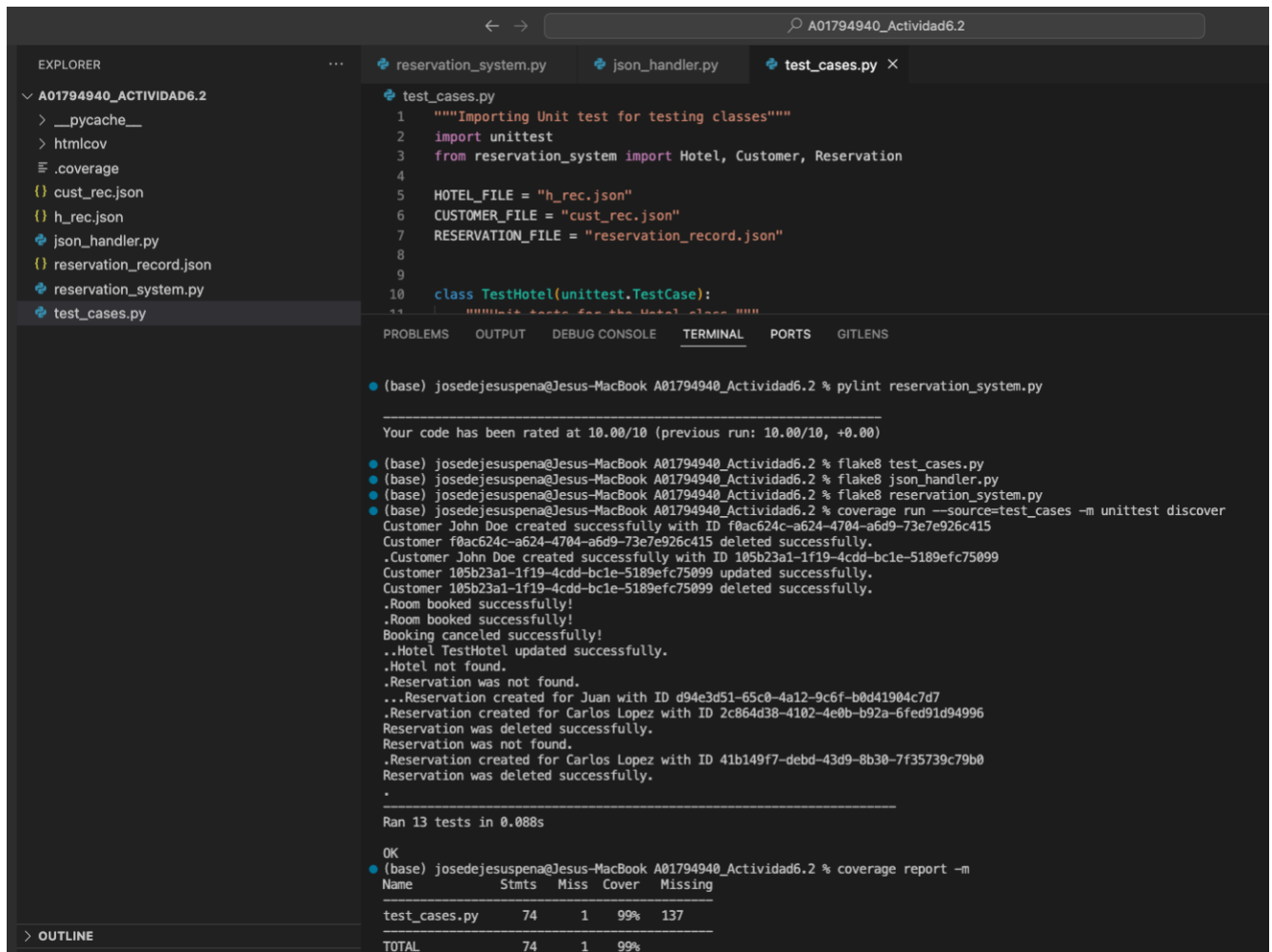
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint reservation_system.py

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

• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 test_cases.py
• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 json_handler.py
• (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 reservation_system.py
○ (base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 %
```

Code coverage por medio de los unittest asegurando al menos 85% de cobertura en todas las líneas del código principal



The screenshot shows a VS Code editor with a project named 'A01794940_ACTIVIDAD6.2'. The Explorer panel on the left shows the project structure, including files like 'cust_rec.json', 'h_rec.json', 'json_handler.py', 'reservation_record.json', 'reservation_system.py', and 'test_cases.py'. The main editor window displays the 'test_cases.py' file, which contains a 'TestHotel' class with various test methods. The Terminal panel at the bottom shows the output of a 'coverage run' command, which executed the tests and generated a coverage report. The report shows that 74 statements were executed, with 1 statement missed, resulting in a 99% coverage rate. The tests passed successfully, with 13 tests run in 0.088 seconds.

```
test_cases.py
1  """Importing Unit test for testing classes"""
2  import unittest
3  from reservation_system import Hotel, Customer, Reservation
4
5  HOTEL_FILE = "h_rec.json"
6  CUSTOMER_FILE = "cust_rec.json"
7  RESERVATION_FILE = "reservation_record.json"
8
9
10 class TestHotel(unittest.TestCase):
11     """Unit tests for the Hotel class"""
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % pylint reservation_system.py

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

(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 test_cases.py
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 json_handler.py
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % flake8 reservation_system.py
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % coverage run --source=test_cases -m unittest discover
Customer John Doe created successfully with ID f0ac624c-a624-4704-a6d9-73e7e926c415
Customer f0ac624c-a624-4704-a6d9-73e7e926c415 deleted successfully.
Customer John Doe created successfully with ID 105b23a1-1f19-4cdd-bc1e-5189efc75099
Customer 105b23a1-1f19-4cdd-bc1e-5189efc75099 updated successfully.
Customer 105b23a1-1f19-4cdd-bc1e-5189efc75099 deleted successfully.
Room booked successfully!
Room booked successfully!
Booking canceled successfully!
Hotel TestHotel updated successfully.
Hotel not found.
Reservation was not found.
...Reservation created for Juan with ID d94e3d51-65c0-4a12-9c6f-b0d41904c7d7
Reservation created for Carlos Lopez with ID 2c864d38-4102-4e0b-b92a-6fed91d94996
Reservation was deleted successfully.
Reservation was not found.
Reservation created for Carlos Lopez with ID 41b149f7-debd-43d9-8b30-7f35739c79b0
Reservation was deleted successfully.
.
Ran 13 tests in 0.088s

OK
(base) josedejesuspna@Jesus-MacBook A01794940_Actividad6.2 % coverage report -m
Name           Stmts  Miss  Cover   Missing
-----
test_cases.py    74      1    99%
TOTAL            74      1    99%
```