



**Tecnológico  
de Monterrey**

**Instituto Tecnológico y de Estudios Superiores de  
Monterrey**

**Maestría en Inteligencia Artificial Aplicada - MNA**

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

**Actividad**

**Sistema de reservaciones**

**Profesores**

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# Programa 1. Análisis de Errores de Pylint – PEP 8

The screenshot shows the VS Code interface with the following details:

- Explorer View:** Shows the project structure with files like cliente.py, test\_cliente.py, hotel.py, test\_hotel.py, and reservation.py.
- Editor View:** Displays the code for `reservation.py`. A vertical bar on the right indicates code coverage or analysis results.
- Terminal View:** Shows the command `pylint source/ tests/` being run, resulting in a rating of 10.80/10.
- Suggested Actions:** A panel on the right suggests building the workspace or showing configuration.
- Bottom Status Bar:** Shows the current file is `reservation.py`, the Python version is 3.12.1, and the layout is U.S.

# Programa 1. Análisis de Errores de Flake

The screenshot shows the VS Code interface with the following details:

- Explorer View:** Shows the project structure with files like cliente.py, test\_cliente.py, hotel.py, test\_hotel.py, and reservation.py.
- Editor View:** Displays the same code as the Pylint screenshot, with a vertical analysis bar on the right.
- Terminal View:** Shows the command `flake8 source/ tests/` being run, resulting in a rating of 10.80/10.
- Suggested Actions:** A panel on the right suggests building the workspace or showing configuration.
- Bottom Status Bar:** Shows the current file is `reservation.py`, the Python version is 3.12.1, and the layout is U.S.

Programa 1. Correcto Diseño de Casos de Prueba.  
Incluir casos negativos.

```
export PYTHONPATH=$PYTHONPATH:. && coverage run -m unittest discover -s tests
```

The screenshot shows a PyCharm IDE interface with the following details:

- Project:** MNA-A01796560-pruebas-de-software
- File:** test\_reservacion.py
- Code Editor:** Displays a test case for creating a reservation. It highlights several errors related to client and hotel IDs.
- Terminal:** Shows command-line output for running tests and coverage analysis.
- SIDE BAR (GitHub):**
  - PR #6: MNA-A01796560-pruebas-de-software · 6.2/P1 (feature-tarea-6)
  - Build status: OK by robertobazua (now)
  - Commit message: Resolucion de errores en la creacion de reservaciones
  - Reviewers: 1 review pending
  - Comments: 1 comment
- SUGGESTED ACTIONS:**
  - Build Workspace
  - Show Config

# Programa 1. Cobertura de líneas por clase

```
coverage report -m && coverage html -d results
```

The screenshot shows a developer's workspace with the following details:

- EXPLORER**: Shows the project structure: MNA-A01796560-PRUEBAS-DE-SOFTWARE. It includes files like client.py, test\_client.py, hotel.py, test\_hotel.py, reservation.py, and test\_reservacion.py.
- CODE**: Displays the Python code for reservation.py. The code handles creating, updating, and canceling reservations. Annotations from GitHub Copilot are present, such as "client": Misspelled word, "id\_cliente": Unknown word, and "reservacion": Unknown word.
- PROBLEMS**: Shows 79 issues.
- OUTPUT**: Shows bash-P1 output.
- DEBUG CONSOLE**: Shows bash-P1 output.
- TERMINAL**: Shows bash-P1 output.
- PORTS**: Shows bash-P1 output.
- GITLENS**: Shows bash-P1 output.
- SPELL CHECKER**: Shows bash-P1 output.
- SUGGESTED ACTIONS**: Buttons for "Build Workspace" and "Show Config".
- CHAT**: A sidebar with a message from GitHub Copilot: "Build with Agent". Sub-options include "All responses may be inaccurate.", "Generate Agent Instructions to onboard", and "AI onto your codebase."