

Here are test results showing that we pass all 125 tests that we've created for our program. Although pybuilder cannot import a module *it should be able to import*, our tests do 100% work and I believe would cover well over 90% of the code.

The screenshot displays the PyCharm IDE interface. The top toolbar includes icons for running and debugging. The main editor window shows a Python file named `test_hotel_stay_tests.py` with the following code:

```
from src.main.python.uc3m_travel.hotel_management_exception import HotelManagementException

class TestRequestReservation(TestCase):
```

The Run tool window at the bottom shows the execution of the test. The output indicates that 36 tests passed in 2 milliseconds. The command used to launch the unittests is:

```
python -m unittest test_make_reservation_tests.TestRequestReservation
```

The status bar at the bottom shows the current file path: `G89.2024.T01.EG2TWO > src > unittest > python > test_make_reservation_tests.py`.

HotelStayTests:

The screenshot shows the PyCharm IDE interface for a project named "G89.2024.T01.EG2TWO". The left sidebar displays the project structure, including a virtual environment ".venv" and source files like "test_hotel_stay_tests.py". The main editor window shows the code for "TestStayHotel" class, which inherits from "TestCase". The "setUp" method initializes a "full_data" dictionary with test values for "id_card", "name_surname", and "credit_card".

The bottom panel shows the "Run" output for "Python tests for test_hotel_stay_tests.TestStayHotel". The test results indicate that 77 out of 77 tests passed in 183 ms. The output text is as follows:

```

/Users/connorloughlin/Documents/PycharmProjects/G89.2024.T01.EG2TWO/.venv/bin/python /Applications/PyCharm CE.app/Contents/plugins/python-test/python-test.py
Testing started at 11:37 PM ...
Launching unittests with arguments python -m unittest test_hotel_stay_tests.TestStayHotel in /Users/connorloughlin/Documents/PycharmProjects/G89.2024.T01.EG2TWO
Ran 77 tests in 0.229s
OK
Process finished with exit code 0

```

The status bar at the bottom indicates the file encoding is UTF-8, there are 4 spaces, and the Python version is 3.12 (G89.2024.T01.EG2TWO).

CheckoutTests:

The screenshot shows the PyCharm IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, Git, Window, and Help. The project name is G89.2024.T01.EG2TWO. The left sidebar shows the project structure with folders like .pybuilder, .venv, docs, src, main, unittest, and python. The main editor displays the file test_hotel_checkout_tests.py, which contains the following code:

```
10 import unittest
11 from unittest import TestCase, mock
12 from freezegun import freeze_time
13 from uc3m_travel.hotel_checkout import HotelCheckout
14 from uc3m_travel.hotel_checkout import HotelManagementException
15
16
17 class TestHotelCheckout(TestCase):
18     """
19     Manages the checkout process for guests in the hotel.
20
```

The Run tab shows the test results for Python tests for test_hotel_checkout_tests.TestHotelCheckout. The test results are as follows:

```
Test Results 49m
✓ Tests passed: 12 of 12 tests - 49 ms

/Users/connorloughlin/Documents/PycharmProjects/G89.2024.T01.EG2TWO/.venv/bin/python /Applications/PyCharm CE.app/Contents/plugins/python-test/python-test.py
Testing started at 11:38 PM ...
Launching unittests with arguments python -m unittest test_hotel_checkout_tests.TestHotelCheckout in /Users/connorloughlin/Documents/PycharmProjects/G89.2024.T01.EG2TWO/src/main/python/uc3m_travel/hotel_checkout.py:124: DeprecationWarning:
timestamp = datetime.utcnow().strftime("%Y-%m-%d %H:%M:%S")

Ran 12 tests in 0.056s

OK

Process finished with exit code 0
```

The bottom status bar shows the file path G89.2024.T01.EG2TWO > src > unittest > python > test_hotel_checkout_tests.py, the line number 13:6, the file encoding UTF-8, the indentation 4 spaces, the Python version Python 3.12 (G89.2024.T01.EG2TWO), and the file icon.