

Unit Testing Lab

Objectives

After completing this lab you will be able to:

- Write unit tests to test a function.
- Run unit tests and interpret the result

Write Unit Tests

Write the unit tests for square function

Let us write test cases for these three scenarios.

- When 2 is given as input the output must be 4.
- When 3.0 is given as input the output must be 9.0.
- When -3 is given as input the output must not be -9.

Write the unit tests for double function

Let us write test cases for these three scenarios.

- When 2 is given as input the output must be 4.
- When -3.1 is given as input the output must be -6.2.
- When 0 is given as input the output must be 0.

```
theia@theiadocker-shivamk:/home/project$ python3 test_mymodule.py
..
-----
Ran 2 tests in 0.000s

OK
theia@theiadocker-shivamk:/home/project$
```

Python 3.6.9 64-bit 0 0 0 Go Live Ln 18, Col 16 LF UTF-8

An **OK** in the last line indicates that all tests passed successfully.

FAILED in the last line indicates that at least one test has failed, and python prints which test or tests failed.