

4 Test Runner: CLI

Test Runner CLI

The test runner can be started by invoking the unittest module as a command line application. Including options to run one or more test modules, test cases, or test methods.

Configuration can be specified using [command line flags](#).

```
1 python3 -m unittest -h
```

```
usage: python3 -m unittest [-h] [-v] [-q] [--locals] [-f] [-c] [-b] [-k TESTNAMEPATTERNS] [tests ...]

positional arguments:
  tests                a list of any number of test modules, classes and test methods.

optional arguments:
  -h, --help            show this help message and exit
  -v, --verbose          Verbose output
  -q, --quiet           Quiet output
  --locals              Show local variables in tracebacks
  -f, --failfast         Stop on first fail or error
  -c, --catch           Catch Ctrl-C and display results so far
  -b, --buffer          Buffer stdout and stderr during tests
  -k TESTNAMEPATTERNS  Only run tests which match the given substring

Examples:
python3 -m unittest test_module           - run tests from test_module
python3 -m unittest module.TestClass      - run tests from module.TestClass
python3 -m unittest module.Class.test_method - run specified test method
python3 -m unittest path/to/test_file.py   - run tests from test_file.py
```

Notice the call to `unittest.main` is omitted in the example below. It's not required when starting the test runner using the unittest module's CLI.

```
1 import unittest
2 class TestExample(unittest.TestCase):
3     def test_is_number(self):
4         self.assertTrue(int('10') == 10)
5     def test_not_number(self):
6         with self.assertRaises(ValueError):
7             int('nope')
8
```

Instructions

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Instructions

1. Arrange the **test_assertion.py** file to match the code above.
2. Start the test runner as a CLI in the IDEs **terminal** pane.

```
1 python3 -m unittest cloudacademy.test_assertion.TestExample.  
test_is_number (test_assertion.TestExample) ... ok  
-----  
Ran 1 test in 0.001s  
OK
```

3. (Optional) Explore additional commands

```
1 python3 -m unittest cloudacademy.test_assertion.TestExample
```

Runs all the test methods for the `test_assertion.TestExample` class. The `test_assertion.TestExample` resides in the `cloudacademy` package.

```
1 python3 -m unittest cloudacademy.test_assertion -v -f
```

Runs all the test cases in the `test_assertion` module.

★ Proceed to the next step ★

✓ Validations

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