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M5 Programming Assignment – Testing

- The test results are essentially used to establish whether or not your code is functioning the way you are wanting/expecting it too. I included a sample from the realpython.com here of what a sample error message looks like with one correctly processed test, and one failed.

$ python test_sum_unittest.py

.F

==

FAIL: test_sum_tuple (__main__.TestSum)

Traceback (most recent call last):

  File "test_sum_unittest.py", line 9, in test_sum_tuple

    self.assertEqual(sum((1, 2, 2)), 6, "Should be 6")

AssertionError: Should be 6

Ran 2 tests in 0.001s

FAILED (failures=1)

- Looking at this, you can see the product (".F") of the test in simplified terms right underneath the command: "python test_sum_unittest.py". The period indicates a successfully tested method (or class), and the F indicates a failed run through. The next line details which method failed – and includes traceback to help you identify any errors in your logic if it does not return the expected answer. You initially create a class that is turned into a method through adding an argument and assertions. We can see the test_sum_tuple failed due to invalid response compared to what we expected our answer to be. The AssertionError is a detail that notifies the user that there was an unexpected exception raised during the processing of the test case.