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**Python 2: Getting More Out of Python  
Lesson 3, Project 1**

Handed in: 21 Feb 2015 10:55:58AM Graded: 21 Feb 2015 11:09:13AM

Here are your instructions:

Make a **TestDrivenDevelopment\_Homework** project and assign it to the **Python2\_Homework** working set.

Copy the **setupDemo.py** file from the **TestDrivenDevelopment/src** folder to the **TestDrivenDevelopment\_Homework/src** folder.

Modify it so that:

* The test\_1() method includes code to verify that the test directory contains only the files created by the **for** loop. Hint: You might create a set containing the list of three filenames, and then create a set from the os.listdir() method.
* A test\_3() method creates a binary file that contains exactly a million bytes, closes it and then uses os.stat to verify that the file on disk is of the correct length (with os.stat, **statinfo.st\_size** returns the size in bytes).

**Your Comment:**

Wow, what a great lesson! TDD is great stuff. I'm already envisioning a script that

tests to makes sure data is cleaned properly for use in specific ML algorithms.

**Items Handed In**

* [Open Project Handed In](file:///C:\Code\O'Reilly%20School\Python%202\Lesson%203%20-%20TDD\project\%3f\.handin\160-7837-1\com.ost.jwoloson.160.7837.1.TestDrivenDevelopment_Homework.zip)

**Overall Comments:**

Hi Jason,

Yes, it beats the hell out of trying to it do by hand.

This is pretty close, but you have successfully written a 1 million character text file. This, as opposed to a 1 million bytes file. To do this, and you need to select the correct open mode then write bytes to it.

There are a few other things I would like to point out as optional improvements:

-If you don't care what's in the file, you don't need to write to it. And if you're not going to do anything with it, you don't even need a handle for it. So for this project, you could create a file that simply as:

open('myfile', 'w').close()

-Whenever you find yourself typing something more than once, you'll want to ask yourself whether or not there is an easy way to create a variable instead. The test\_3() method is a case in point. You had to type some permutation of "1 million" more than once. It's borderline-trivial for the small exercise, but imagine a larger effort with a lot more code ... If the project specifications were changed from 1,000,000 to 2,000,000, you'll be potentially set up for a maintenance nightmare.

-Here's a trick that's not actually compliant with PEP-8, but it's the quick and dirty way to toggle diagnostic print statements:

#At the top of the script:

DEBUG=False

#later

if DEBUG: print(msg, self.dirname)

-Pat

**Grade:**

Try Again

Your instructor would like you to work on this project. Be sure to hand in your corrections!

[Take Me Back](ostreturn:)

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