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**Python 3: The Python Environment  
Lesson 10, Project 1**

Handed in: 9 Jun 2015 05:45:20PM Graded: 11 Jun 2015 10:19:26AM

**Here are your instructions:**

Create a **Python3\_Homework10** project and assign it to your **Python3\_Homework** working set. In the **Python3\_Homework10/src** folder, create a program named **property\_address.py**, including the following:

* The custom exceptions StateError and ZipCodeError.
* Class Address that takes name, street\_address, city, state, and zip\_code as string arguments, which must then be set as attributes. You turn any or all of these attributes into properties in order to solve this assignment so long as they also meet these requirements:
  + After being set in \_\_init\_\_, the name attribute is read-only. Further attempts to modify it will trigger an AttributeError.
  + Zip code must follow the simple US pattern (nnnnn) or it throws a ZipCodeError.
  + State only allows two capital letters or it throws a StateError.
* State and Zip code validation must be done by regular expressions.
* Your project must include (and your program must pass!) the unittest test\_property\_address.py (listed below).

import unittest

from property\_address import \*

class TestAddresses(unittest.TestCase):

def setUp(self):

self.home = Address( name='Steve Holden', street\_address='1972 Flying Circus', city='Arlington', state='VA', zip\_code='12345' )

def test\_name(self):

self.assertEqual(self.home.name, 'Steve Holden')

self.assertRaises(AttributeError, setattr, self.home, 'name', 'Daniel Greenfeld')

def test\_state(self):

self.assertEqual(self.home.state, 'VA')

self.assertRaises(StateError, setattr, self.home, 'state', 'Not a state')

self.home.state = 'CO'

self.assertEqual(self.home.state, 'CO')

def test\_zip\_code(self):

self.assertEqual(self.home.zip\_code, '12345')

self.assertRaises(ZipCodeError, setattr, self.home, 'zip\_code', '123456')

self.home.zip\_code = '54321'

self.assertEqual(self.home.zip\_code, '54321')

if \_\_name\_\_ == "\_\_main\_\_":

unittest.main()

Submit **property\_address.py** and **test\_property\_address.py** when they are working to your satisfaction.

**Your Comment:**

Kirby,

Added a few other lines in the test suite to match some added functionality in my program.

**Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/147-6649-1/com.ost.jwoloson.147.6649.1.Python3_Homework10.zip)

**Overall Comments:**

Excellent. Yes, I see you're practicing various things in the setters. Good job.

-Kirby

**Grade:**

Great

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