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**Python 3: The Python Environment  
Lesson 2, Project 1**

Handed in: 2 Jun 2015 09:13:19PM Graded: 4 Jun 2015 09:51:47PM

**Here are your instructions:**

Create a **Python3\_Homework02** project and assign it to your **Python3\_Homework** working set. In the **Python3\_Homework02/src** folder, create a file named **coconuts.py**, with an inventory class that tracks different types of coconuts from around the world. The different types of coconuts must have these weight attribute values:

|  |  |
| --- | --- |
| **Type** | **Weight** |
| South Asian | 3 |
| Middle Eastern | 2.5 |
| American | 3.5 |

The inventory class must have the following methods:

* **add\_coconut()** accepts a coconut as an argument. Other types throw an AttributeError.
* **total\_weight()** provides the total weight of coconuts.

For this project, you may find the **isinstance** built-in useful.

You must Include a **test\_coconuts.py** program to confirm all the Inventory class methods. The tests must check:

1. That different coconut types each have a different weight.
2. That if a string object is passed to the **Inventory.add\_coconut** method, an AttributeError is thrown.
3. That if 2 South Asian, 1 Middle Eastern, and 3 American coconuts are added to the inventory, the **Inventory.total\_weight()** method returns 19.

When they are working, submit **coconuts.py** and **test\_coconuts.py**.

**Your Comment:**

*no comment given*

**Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/147-6583-1/com.ost.jwoloson.147.6583.1.Python3_Homework02.zip)

**Overall Comments:**

What I'd like in a next attempt is no touching of weight by Inventory methods except in total\_weight where you go:

return sum([nut.weight for nut in self.nuts]) # self.nuts in \_\_init\_\_ set to [ ]

It's a goal to have Inventory have minimal overhead. It doesn't care about anything except the incoming type being a Coconut (you got that) at which point append to self.nuts.

Here's an alternative class hierarchy to consider, not saying you must use:

class Coconut:

pass

class SouthAsian(Coconut):

weight = 3

class MiddleEastern(Coconut):

weight = 2.5

class American(Coconut):

weight = 3.5

-Kirby

**Grade:**

Try Again

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

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