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

Handed in: 5 Jun 2015 01:13:23AM Graded: 5 Jun 2015 11:01:33PM

**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:**

Kirby,

Great suggestions!

**Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/147-6583-2/com.ost.jwoloson.147.6583.2.Python3_Homework02.zip)

**Overall Comments:**

Excellent.

However very rarely when a weight or measure is expected will you want to format a string result.

That's 99.9% the caller's job, with your methods sticking to bare bones most logical type for a numeric sum, a numeric type, i.e. a float.

Just pointing out that returning an object is not really like a final output to a public, all dressed up for a human reader.

To return is to create an internal molecule for some other part of the brain so to speak.

But then of course humans will import a module in the console and direct view such output all the time -- but best if the code isn't "console aware" like that usually, so that it stays more general purpose.

-Kirby

**Grade:**

Great

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