Top of Form



Bottom of Form

Top of Form



# Python 3: The Python Environment Lesson 7, Project 1

Handed in: 4 Jun 2015 10:20:17PM Graded: 4 Jun 2015 10:23:12PM

**Here are your instructions:**

Create a **Python3\_Homework07** project and assign it to your **Python3\_Homework** working set. In the **Python3\_Homework07/src** folder, create a program named **furnishings.py** that includes a **Furnishing** class. During instantiation, this class should ask for a "room" argument. Then, create the following classes that inherit from the Furnishing class: Sofa, Bookshelf, Bed, and Table.

Use the built-in list type to record the furniture in your own home that matches the classes above. So for example, you might have:

>>> from furnishings import \*

>>> home = []

>>> home.append(Bed('Bedroom'))

>>> home.append(Sofa('Living Room'))

Now, write a map\_the\_home() function to convert that to a built-in dict type where the rooms are the individual keys and the associated value is the list of furniture for that room. If we ran that code against what we display in our command line, we might see:

>>> map\_the\_home(home)

{'Bedroom': [<furnishings.Bed object at 0x39f3b0>], 'Living Room': [<furnishings.Sofa object at 0x39f3b0>]}

Also write a counter() function that prints the types of furniture and how many there are of each type. The results, based on our example:

>>> counter(home)

Beds: 1

Bookshelves: 0

Sofas: 1

Tables: 0

Your project should meet the following conditions:

* The program should be able to produce the same results as the list above.
* You should include a **test\_furnishings.py** program that tests the map\_the\_home() function.

Submit **furnishings.py** and **test\_furnishings.py** when they are working to your satisfaction.

##### Your Comment:

*no comment given*

##### Items Handed In

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/147-6640-1/com.ost.jwoloson.147.6640.1.Python3_Homework07.zip)

### Overall Comments:

Excellent.

-Kirby

### Grade:

Great

[Take Me Back](ostreturn:)

© 2014, O'Reilly Media, Inc. All rights reserved.

Bottom of Form