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Core

Deadline: Sunday of Week 1

Difficulty Level: Intermediate

Est. Time: 1 – 2 hrs

Assignment: Nested Dictionaries & Lists

Welcome to another Core assignment! Some students like to explore the assignments before they're finished reading through the lessons, and that's okay! It can be good for your brain to have a preview of what your future challenges might be. However, before you begin this assignment, it's important that you've first:

- Completed the preceding lesson modules
- Taken the knowledge checks to confirm your understanding
- Viewed lecture material related to the assignment topics
- Completed and submitted your practice assignments

Now, the Assignment:

Note: Avoid using class keywords like `int`, `str`, `list`, and `dict` as variable/parameter names.

1. Update Values in Dictionaries and Lists

```
x = [ [5,2,3], [10,8,9] ]
students = [
    {'first_name': 'Michael', 'last_name' : 'Jordan'},
    {'first_name' : 'John', 'last_name' : 'Rosales'}
]
sports_directory = {
    'basketball' : ['Kobe', 'Jordan', 'James', 'Curry'],
    'soccer' : ['Messi', 'Ronaldo', 'Rooney']
}
z = [ {'x': 10, 'y': 20} ]
```

1. Change the value 10 in x to 15. Once you're done, x should now be [[5,2,3], [15,8,9]].
2. Change the last_name of the first student from 'Jordan' to 'Bryant'
3. In the sports_directory, change 'Messi' to 'Andres'
4. Change the value 20 in z to 30

2. Iterate Through a List of Dictionaries

Create a function `iterate_dictionary(some_list)` that, given a list of dictionaries, the function loops through each dictionary in the list and prints each key and the associated value. For example, given the following list:

```
students = [
    {'first_name': 'Michael', 'last_name' : 'Jordan'},
    {'first_name' : 'John', 'last_name' : 'Rosales'},
    {'first_name' : 'Mark', 'last_name' : 'Guillen'},
    {'first_name' : 'KB', 'last_name' : 'Tonel'}
]

iterate_dictionary(students)
# should output: (it's okay if each key-value pair ends up on 2 separate lines;
# bonus to get them to appear exactly as below!)
first_name - Michael, last_name - Jordan
first_name - John, last_name - Rosales
first_name - Mark, last_name - Guillen
first_name - KB, last_name - Tonel
```

3. Get Values From a List of Dictionaries

Create a function `iterate_dictionary2(key_name,some_list)` that, given a list of dictionaries and a key name, the function prints the value stored in that key for each dictionary. For example, `iterate_dictionary2('first_name', students)` should output:

Michael
John
Mark
KB

And `iterate_dictionary2('last_name', students)` should output:

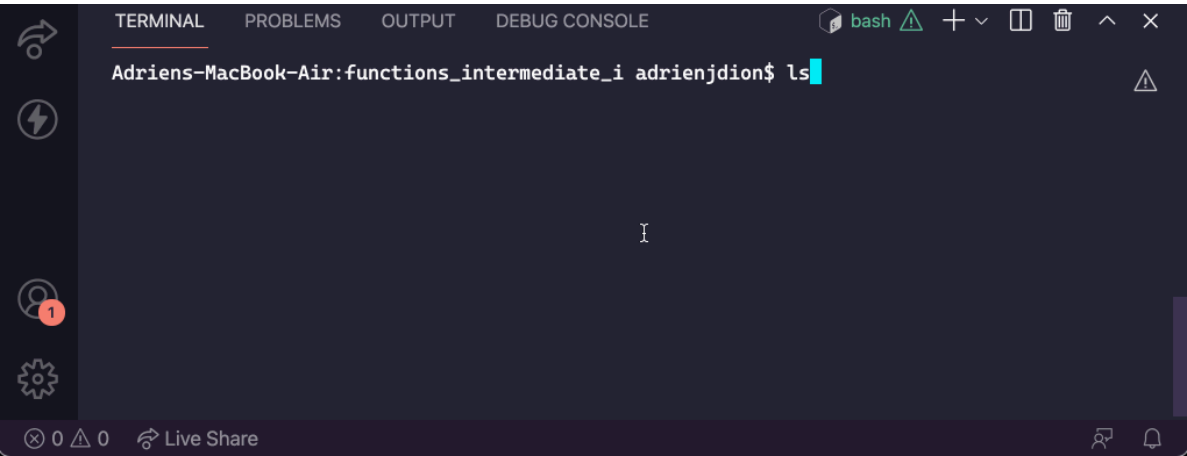
Jordan
Rosales
Guillen
Tone1

4. Iterate Through a Dictionary with List Values

Create a function `print_info(some_dict)` that given a dictionary whose values are all lists, prints the name of each key along with the size of its list, and then prints the associated values within each key's list. For example:

```
dojo = {
    'locations': ['San Jose', 'Seattle', 'Dallas', 'Chicago', 'Tulsa', 'DC',
'Burbank'],
    'instructors': ['Michael', 'Amy', 'Eduardo', 'Josh', 'Graham', 'Patrick', 'Minh',
'Devon']}
print_info(dojo)
# output:
7 LOCATIONS
San Jose
Seattle
Dallas
Chicago
Tulsa
DC
Burbank

8 INSTRUCTORS
Michael
Amy
Eduardo
Josh
Graham
Patrick
Minh
Devon
```



- ☐ 1. Update Values in Dictionaries and Lists
- ☐ 2. Iterate Through a List of Dictionaries
- ☐ 3. Get Values From a List of Dictionaries
- ☐ 4. Iterate Through a Dictionary with List Values

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