

GRADE
100%

Practice Quiz: Dictionaries

TOTAL POINTS 5

Try again

1 / 1 point

TO PASS 80% or higher

The `email_list` function receives a dictionary, which contains domain names as keys, and a list of users as values. Fill in the blanks to generate a list that contains complete email addresses (e.g. `diana.prince@gmail.com`).

Grade
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 Correct

Well done! You've created quite an email list!

2. The `groups_per_user` function receives a dictionary, which contains group names with the list of users. Users can belong to multiple groups. Fill in the blanks to return a dictionary with the users as keys and a list of their groups as values.

1 / 1 point

```

1  def groups_per_user(group_dictionary):
2      user_groups = {}
3      # Go through group_dictionary
4      for group in group_dictionary.keys():
5          # Now go through the users in the group
6          for users in group_dictionary[group]:
7              lst = []
8              for group in group_dictionary.keys():
9                  if users in group_dictionary[group] and users not in lst:
10                     lst.append(group)
11             user_groups[users] = lst
12     return user_groups
13
14     # Now add the group to the the list of
15     # groups for this user, creating the entry
16     # in the dictionary if necessary
17
18 print(groups_per_user({"local": ["admin", "userA"],
19                            "public": ["admin", "userB"],
20                            "administrator": ["admin"] })))

```

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✓ Correct

Well done, you! You're now creating dictionaries out of other dictionaries!

3. The `dict.update` method updates one dictionary with the items coming from the other dictionary, so that existing entries are replaced and new entries are added. What is the content of the dictionary "wardrobe" at the end of the following code?

1 / 1 point

```
1 wardrobe = {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black']}
2 new_items = {'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}
3 wardrobe.update(new_items)
```

☐ {'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}

☒ {'shirt': ['red', 'blue', 'white'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}

☐ {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black', 'white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}

☐ {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}

✓ **Correct**

Correct! The dict.update method updates the dictionary (wardrobe) with the items coming from the other dictionary (new_items), adding new entries and replacing existing entries.

4. What's a major advantage of using dictionaries over lists?

1 / 1 point

- ☐ Dictionaries are ordered sets
- ☐ Dictionaries can be accessed by the index number of the element
- ☐ Elements can be removed and inserted into dictionaries
- ☒ It's quicker and easier to find a specific element in a dictionary

✓ Correct

Right on! Because of their unordered nature and use of key value pairs, searching a dictionary takes the same amount of time no matter how many elements it contains

5. The `add_prices` function returns the total price of all of the groceries in the dictionary. Fill in the blanks to complete this function.

1 / 1 point

```

1  def add_prices(basket):
2      # Initialize the variable that will be used for the calculation
3      total = 0
4      # Iterate through the dictionary items
5      for fruits, prices in basket.items():
6          # Add each price to the total calculation
7          # Hint: how do you access the values of
8          # dictionary items?
9          total += basket.get(fruits)
10         # Limit the return value to 2 decimal places
11         return round(total, 2)
12
13 groceries = {'bananas': 1.56, 'apples': 2.50, 'oranges': 0.99, 'bread': 4.59,
14             'coffee': 6.99, 'milk': 3.39, 'eggs': 2.98, 'cheese': 5.44}
15 print(add_prices(groceries)) # Should print 28.44

```

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✓ **Correct**

Nicely done! Dictionaries are a helpful way to store information, and access it easily when it's needed.