Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1. 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).

1
2
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7
8 :e", "peter.parker"], "yahoo.com": ["barbara.gordon", "jean.grey"], "hotmail.com": ["bruce.wayne"]))

Reset

['clark.kent@gmail.com', 'diana.prince@gmail.com', 'peter.parker@gmail.com', 'barbara.gordon@yahoo.com', 'jean.grey@yahc

4

Ocrrect

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

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

```
def groups_per_user(group_dictionary):
              user_groups = {}
              # Go through group_dictionary
for group, users in group_dictionary.items():
                   # Now go through the users in the group
                   for user in users:
                       # Now add the group to the the list of
         # groups for this user, creating the entry
# in the dictionary if necessary
                  user_groups[user] = user_groups.get(user, []) + [group]
   10
   12
              return(user_groups)
   13
         print(groups_per_user({"local": ["admin", "userA"],
   15
                   "public": ["admin", "userB"],
"administrator": ["admin"] }))
                                                                                                       Run
                                                                                                       Reset
{'admin': ['local', 'public', 'administrator'], 'userA': ['local'], 'userB': ['public']}
```

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

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

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

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

- ('shirt': ['red', 'blue', 'white'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']
- O {'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

other dictionaries!

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?
 - O Dictionaries are ordered sets
 - O Dictionaries can be accessed by the index number of the element

1 / 1 point

O Elements can be removed and inserted into dictionaries

It's quicker and easier to find a specific element in a dictionary



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

```
def add_prices(basket):
    # Initialize the variable that will be used for the calculation
            # Iterate through the dictionary items for item in basket:
                # Add each price to the total calculation
                # Hint: how do you access the values of
# dictionary items?
                total += basket[item]
           # Limit the return value to 2 decimal places return round(total, 2)
  10
  11
       13
  14
  15
        print(add_prices(groceries)) # Should print 28.44
                                                                                      Run
  17
28.44
```

⊘ Correct

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