Practice Quiz: Dictionaries Practice Quiz • 25 min Strings GRADE Congratulations! You passed! 100% **Keep Learning Video:** Basic Structures PRACTICE QUIZ • 25 MIN TO PASS 80% or higher Introduction 1 min **Practice Quiz: Dictionaries Video:** What is a string? 2 min **Practice Quiz: Dictionaries Video:** The Parts of a String **TOTAL POINTS 5** Reading: String Indexing and Slicing Submit your assignment 10 min 1. The email_list function receives a dictionary, which contains domain names as keys, and a list of users as values. 1 / 1 point **Video:** Creating New Strings Fill in the blanks to generate a list that contains complete email addresses (e.g. diana.prince@gmail.com). Receive grade Grade def email_list(domains): View Feedback Reading: Basic String 2 emails = [] 100% TO PASS 80% or higher Methods for domain, users in domains.items(): We keep your highest score 10 min 4 for user in users: 5 emails.append(user+'@'+domain) Run **Video:** More String Methods 6 return(emails) print(email_list({"gmail.com": ["clark.kent", "diana.prince", "peter.parker yahoo.com": ["barbara.gordon", "jean.grey"], "hotmail.com": ["bruce.wayne"]})) Reading: Advanced String Methods Correct Well done! You've created quite an email list! **Video:** Formatting Strings 5 min Reading: String Formatting 10 min 2. The groups_per_user function receives a dictionary, which contains group names with the list of users. Users 1 / 1 point **Reading:** String Reference can belong to multiple groups. Fill in the blanks to return a dictionary with the users as keys and a list of their Cheat Sheet groups as values. 10 min def groups_per_user(group_dictionary): **Reading:** Formatting Strings user_groups = {} 2 Cheat Sheet 3 # Go through group_dictionary 10 min for group in group_dictionary.keys(): # Now go through the users in the group **Practice Quiz:** Practice for users in group_dictionary[group]: Quiz: Strings lst = [] 5 questions for group in group_dictionary.keys(): 8 9 if users in group_dictionary[group] and users not in lst: 10 lst.append(group) **Video:** What is a list? 11 user_groups[users] = 1st 4 min 12 return user_groups 13 # Now add the group to the the list of Reading: Lists Defined # groups for this user, creating the entry # in the dictionary if necessary 15 16 **Video:** Modifying the 17 Contents of a List print(groups_per_user({"local": ["admin", "userA"], Run 19 "public": ["admin", "userB"], Reset 20 "administrator": ["admin"] })) Reading: Modifying Lists 10 min **Video:** Lists and Tuples Correct 3 min Well done, you! You're now creating dictionaries out of Reading: Tuples other dictionaries! 10 min **Video:** Iterating over Lists and Tuples 7 min 3. The dict.update method updates one dictionary with the items coming from the other dictionary, so that 1 / 1 point Reading: Iterating Over Lists existing entries are replaced and new entries are added. What is the content of the dictionary "wardrobe" at the Using Enumerate end of the following code? 10 min wardrobe = {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black']} **Video:** List Comprehensions new_items = {'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']} wardrobe.update(new_items) Reading: List Comprehensions {'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']} 10 min Reading: Lists and Tuples ('shirt': ['red', 'blue', 'white'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown'] **Operations Cheat Sheet** 10 min {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black', 'white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']} Practice Quiz: Practice {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']} Quiz: Lists 6 questions Dictionaries Correct Correct! The dict.update method updates the dictionary (wardrobe) with the items coming from the other **Video:** What is a dictionary? dictionary (new_items), adding new entries and replacing existing entries. 5 min Reading: Dictionaries Defined 10 min 4. What's a major advantage of using dictionaries over lists? 1 / 1 point **Video:** Iterating over the Contents of a Dictionary Dictionaries are ordered sets 4 min Dictionaries can be accessed by the index number of the element Reading: Iterating Over Dictionaries Elements can be removed and inserted into dictionaries 10 min It's quicker and easier to find a specific element in a dictionary **Video:** Dictionaries vs. Lists 3 min **Reading:** Dictionary Correct Methods Cheat Sheet 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 Practice Quiz: Practice Quiz: Dictionaries 5 questions 5. The add_prices function returns the total price of all of the groceries in the dictionary. Fill in the blanks to **Module Review** 1 / 1 point complete this function. **Video:** Basic Structures Wrap Up def add_prices(basket): # Initialize the variable that will be used for the calculation 1 min **Video:** In Marga's Words: # Iterate through the dictionary items My Most Challenging Script for fruits, prices in basket.items(): 1 min # Add each price to the total calculation 7 # Hint: how do you access the values of Quiz: Module 4 Graded 8 # dictionary items? 9 total += basket.get(fruits) 10 questions # Limit the return value to 2 decimal places 10 return round(total, 2) 11 **Discussion Prompt:** 12 Discussion Prompt 13 groceries = {"bananas": 1.56, "apples": 2.50, "oranges": 0.99, "bread": 4.59, 5 min "coffee": 6.99, "milk": 3.39, "eggs": 2.98, "cheese": 5.44} 14 print(add_prices(groceries)) # Should print 28.44 15 Reset 16

✓ Correct

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

Lists