

6/7 Advanced Python Objects

Assessment Test

- -> this is a test
- -> there are multiple problems in this
- -> converting a number to binary representation
- -> rounding a number to two decimal places
- -> then checking if every letter in a string is lowercase
- -> then checking the number of times 'w' shows up in a string, stored in a variable
- -> then finding the elements in one set which are not in the other
- -> the finding all the elements which are in either set
- -> then creating a dictionary, noting a pattern and using dictionary comprehension to create the dictionary
- -> then reversing and sorting lists

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Advanced Python Objects Test

Advanced Numbers

Problem 1: Convert 1024 to binary and hexadecimal representation:

In []:

Problem 2: Round 5.23222 to two decimal places

In []:

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Advanced Strings

Problem 3: Check if every letter in the string s is lower case

In [1]: `s = 'hello how are you Mary, are you feeling okay?'`

Problem 4: How many times does the letter 'w' show up in the string below?

In [2]: `s = 'twywywtwywbwhsjhwuwshshwuwwjddid'`

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Advanced Sets

Problem 5: Find the elements in set1 that are not in set2:

In [3]: `set1 = {2,3,1,5,6,8}`
`set2 = {3,1,7,5,6,8}`

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Advanced Sets

Problem 5: Find the elements in set1 that are not in set2:

In [3]: `set1 = {2,3,1,5,6,8}`
`set2 = {3,1,7,5,6,8}`

Problem 6: Find all elements that are in either set:

In []:

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Advanced Dictionaries

Problem 7: Create this dictionary: {0: 0, 1: 1, 2: 8, 3: 27, 4: 64} using dictionary comprehension.

In []:

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Advanced Lists

Problem 8: Reverse the list below:

In [4]: `l = [1,2,3,4]`

Problem 9: Sort the list below

In [5]: `l = [3,4,2,5,1]`

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Great Job!

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