course_1_assessment_7

Due: 2018-11-25 01:21:00

Description: Assessment for Way of Programmer Week 3. Score: 5.0 of 5 = 100.0%

Questions

Score: 1.0 / 1

Comment: autograded

`rainfall_mi` is a string that contains the average number of inches of rainfall in Michigan for every month (in inches) with every month separated by a comma. Write code to compute the number of months that have more than 3 inches of rainfall. Store the result in the variable `num_rainy_months`. In other words, count the number of items with values `> 3.0`.

Hard-coded answers will receive no credit.

Save & Run 2/10/2021, 1:20:02 AM - 33 of 33 Show CodeLens

```
1 rainfall_mi = "1.65, 1.46, 2.05, 3.03, 3.35, 3.46, 2.83, 3.23, 3.5, 2.52, 2.8, 1.85"
2 months=rainfall_mi.split(",")
3 num_rainy_months=0
4 for i in months:
5     if float(i)>3:
6         num_rainy_months+=1
7
8 print(num_rainy_months)
```

ActiveCode (assess_ps3_1_1_1)

Score: 1.0 / 1

Comment: autograded

The variable `sentence` stores a string. Write code to determine how many words in `sentence` start and end with the same letter, including one-letter words. Store the result in the variable `same_letter_count`.

Hard-coded answers will receive no credit.

Save & Run 2/10/2021, 1:32:54 AM - 17 of 17 Show CodeLens

```
sentence = "students flock to the arb for a variety of outdoor activities such as jogging
words=sentence.split()
same_letter_count=0
for i in words:
    if i[0]==i[-1]:
        same_letter_count+=1
print(same_letter_count)
```

ActiveCode (assess_ps3_1_1_2)

Score: 1.0 / 1

Comment: autograded

Write code to count the number of strings in list `items` that have the character `w` in it. Assign that number to the variable `acc_num`.

HINT 1: Use the accumulation pattern!

HINT 2: the `in` operator checks whether a substring is present in a string.

Hard-coded answers will receive no credit.

Save & Run 2/10/2021, 1:40:35 AM - 8 of 8 Show CodeLens

```
items = ["whirring", "wow!", "calendar", "wry", "glass", "", "llama","tumultuous","owing"]

acc_num=0
for i in items:
    if "w" in i:
        acc_num+=1
print(acc_num)
```

ActiveCode (assess_ps3_1_1_3)

Score: 1.0 / 1

Comment: autograded

Write code that counts the number of words in `sentence` that contain *either* an “a” or an “e”. Store the result in the variable `num_a_or_e`.

Note 1: be sure to not double-count words that contain both an a and an e.

HINT 1: Use the `in` operator.

HINT 2: You can either use `or` or `elif`.

Hard-coded answers will receive no credit.

Save & Run 2/10/2021, 1:47:45 AM - 4 of 4 Show CodeLens

```
1  sentence = "python is a high level general purpose programming language that can be applie
2  List=sentence.split()
3  num_a_or_e=0
4  for i in List:
5      if 'a' in i:
6          num_a_or_e+=1
7      elif 'e' in i:
8          num_a_or_e+=1
9  print(num_a_or_e)
10
11
```

ActiveCode (assess_ps3_1_1_4)

Score: 1.0 / 1

Comment: autograded

Write code that will count the number of vowels in the sentence `s` and assign the result to the variable `num_vowels`. For this problem, vowels are only a, e, i, o, and u. Hint: use the `in` operator with `vowels`.

Save & Run 2/10/2021, 1:52:47 AM - 6 of 6 Show CodeLens

```
1  s = "singing in the rain and playing in the rain are two entirely different situations but
2  vowels = ['a','e','i','o','u']
3  num_vowels=0
4  for i in s:
5      if i in vowels:
6          num_vowels+=1
7  print(num_vowels)
8
9
```

ActiveCode (assess_ps3_1_1_5)

Score Me