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 15/09/2022, 22:26:08 - 5 of 5 Show CodeLens

```
1  rainfall_mi = "1.65, 1.46, 2.05, 3.03, 3.35, 3.46,
2  2.83, 3.23, 3.5, 2.52, 2.8, 1.85"
3
4
5  rainfall_mi=rainfall_mi.split(",")
6
7  num_rainy_months=0
8
9  for rain in rainfall_mi:
10     if float(rain)>3.00:
11         num_rainy_months+=1
12
13 print(num_rainy_months)
```

Activity: 8.14.1 ActiveCode (assess_ps3_1_1_1)

Question in Context (/runestone/books/published/fopp/Conditionals/week3a1.html#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 15/09/2022, 22:26:18 - 4 of 4 Show CodeLens

```
1 sentence = "students flock to the arb for a variety of
2 outdoor activities such as jogging and picnicking"
3
4 # Write your code here.
5  # Answer:
6 sentence=sentence.split()
7
8 same_letter_count=0
9
10 for word in sentence:
11     if word[0]==word[-1]:
12         same_letter_count+=1
13
14 print(same_letter_count)
15
```

Activity: 8.14.2 ActiveCode (assess_ps3_1_1_2)

Question in Context (/runestone/books/published/fopp/Conditionals/week3a1.html#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 15/09/2022, 22:26:30 - 2 of 2 Show CodeLens

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

# Answer:
acc_num=0

for item in items:
    if "w" in item:
        acc_num+=1

print(acc_num)

```

Activity: 8.14.3 ActiveCode (assess_ps3_1_1_3)

Question in Context (/runestone/books/published/fopp/Conditionals/week3a1.html#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 15/09/2022, 22:26:41 - 2 of 2 Show CodeLens

```
sentence = "python is a high level general purpose
programming language that can be applied to many different
classes of problems."

sentence=sentence.split()

```

```
num_a_or_e=0

for word in sentence:
    if "a" in word or "e" in word:
        num_a_or_e+=1

print(num_a_or_e)

```

Activity: 8.14.4 ActiveCode (assess_ps3_1_1_4)

Question in Context (/runestone/books/published/fopp/Conditionals/week3a1.html#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 15/09/2022, 22:26:51 - 2 of 2 Show CodeLens

```
s = "singing in the rain and playing in the rain are
two entirely different situations but both can be fun"
vowels = ['a','e','i','o','u']

# Write your code here.
# Answer:
num_vowels=0

for char in s:
    if char in vowels:
        num_vowels+=1

print(num_vowels)

```

Activity: 8.14.5 ActiveCode (assess_ps3_1_1_5)

Question in Context (/runestone/books/published/fopp/Conditionals/week3a1.html#assess_ps3_1_1_5)

Score Me

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