Questions

**Not yet graded**

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.

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"

inches=rainfall\_mi.split(",")

count=0

for inch in inches:

if float(inch)>3.0:

count+=1

num\_rainy\_months=count

print(num\_rainy\_months)

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.

sentence = "students flock to the arb for a variety of outdoor activities such as jogging and picnicking"

words =sentence.split()

count=0

for word in words:

if word[0]==word[-1]:

count+=1

same\_letter\_count =count

print(same\_letter\_count)

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.

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

count=0

for item in items:

if "w" in item:

count+=1

acc\_num=count

print(acc\_num)

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.

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

words=sentence.split()

count=0

for word in words:

if ("a" in word) or ("e" in word):

count+=1

num\_a\_or\_e=count

print(num\_a\_or\_e)

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.

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']

count=0

for char in s:

if char in vowels:

count+=1

num\_vowels=count

print(num\_vowels)