quiz-strings

September 16, 2024

0.1 QUIZ - Strings

Q 1:

Define a function named **only_first_letters**.

It will take a string as the parameter.

And it will convert all the first letters of each word into upper case.

All the remaining letter will be lower case.

[1]:
```
# Q 1:

# ---- your solution here ----
def only_first_letters(input_string):
    return input_string.title()

# call the function you defined
proper_text = only_first_letters('pyThon iS grEAt')
print(proper_text)
```

```
Python Is Great
```

Q 2:

Define a function taking a text and a letter as parameters.

The function name will be **count_the_letter**.

Function will return the number (count) of occurrences of the letter in the text.

Hints: * use built-in function * your function body should be one line of code * https://docs.python.org/3/library/stdtypes.html#string-methods

[3]:
```
# Q 2:

# ---- your solution here ----
def count_the_letter(text, letter):
    return text.count(letter)

# call the function you defined
```

```
text = input('Please enter a text: ')
letter = input('Now a letter: ')
count_the_letter(text, letter)
```

```
Please enter a text:  history
Now a letter:  i
```

[3]: 1

Q 3:

Define a function named **count_letters**.

It will ask for sentence from the user.

And it will count the occurrences of each letter and print it.

Hints: * Do not count space character * Use the function you defined in Q2.

[5]:
```
# Q 3:

# ---- your solution here ----
def count_letters():
    sentence = input("Please enter a sentence: ").replace(" ", "")
    unique_letters = set(sentence)

    for letter in unique_letters:
        count = count_the_letter(sentence, letter)
        print(f"letter {letter}: {count} time(s)")

# call the function you defined
count_letters()
```

```
Please enter a sentence:  history

letter y: 1 time(s)
letter h: 1 time(s)
letter o: 1 time(s)
letter s: 1 time(s)
letter r: 1 time(s)
letter i: 1 time(s)
letter t: 1 time(s)
```

Q 4:

Your text is:

'Monday Tuesday Wednesday Thursday Friday'.

Do slicing operations on this text and answer the following questions:

[6]:
```
# Q 4:

text = 'Monday Tuesday Wednesday Thursday Friday'


# Given text
text = 'Monday Tuesday Wednesday Thursday Friday'

# find the first 3 chars
first_3_chars = text[:3]

# find the chars between index 7 and 10 (inc.)
chars_7_to_10 = text[7:11]

# find the chars between index 2 and 12 (exc.)
chars_2_to_12 = text[2:12]

# find the chars at indices 3, 4 and 5
chars_3_4_5 = text[3:6]

print(f"the first 3 chars: {first_3_chars}")
print(f"the chars between index 7 and 10 (inc.): {chars_7_to_10}")
print(f"the chars between index 2 and 12 (exc.): {chars_2_to_12}")
print(f"the chars at indices 3, 4 and 5: {chars_3_4_5}")
```

```
the first 3 chars: Mon
the chars between index 7 and 10 (inc.): Tues
the chars between index 2 and 12 (exc.): nday Tuesd
the chars at indices 3, 4 and 5: day
```

Q 5:

Your text:

'Monday Tuesday Wednesday'

Do slicing operations on this text and answer the following questions:

[8]:
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# Given text
text = 'Monday Tuesday Wednesday'

# find the last character
last_char = text[-1]

# find the 3rd character from last
third_last_char = text[-3]
```

```
# find last 3 characters
last_3_chars = text[-3:]

# print the text in reverse order
reverse_text = text[::-1]

print(f"the last character: {last_char}")
print(f"the 3rd character from last: {third_last_char}")
print(f"last 3 characters: {last_3_chars}")
print(f"the text in reverse order: {reverse_text}")
```

```
the last character: y
the 3rd character from last: d
last 3 characters: day
the text in reverse order: yadsendeW yadseuT yadnoM
```

Q 6:

Define a function named **split_email**.

It will ask for an email from the user.

And it will split the email into user name and domain name using **index**.

Hints: * if the input doesn't include '@' char, return a text as 'Invalid email format.'

[10]:
```
# Q 6:

# ---- your solution here ----
def split_email():
    email = input("Please enter an email: ")

    if '@' not in email:
        return 'Invalid email format.'

    user_name, domain = email.split('@', 1)
    print(f"User Name: {user_name}")
    print(f"Domain: {domain}")

# call the function you defined
split_email()
```

```
Please enter an email:  abc@gmail.corp
```

```
User Name: abc
Domain: gmail.corp
```

Q 7:

Define a function named **reverse**.

It will ask for a sentence from the user and return the reverse of this sentence.

[11]:
```
# Q 7:

# ---- your solution here ----
def reverse():
    sentence = input("Please enter a sentence: ")
    return sentence[::-1]

# call the function you defined
reverse()
```

```
Please enter a sentence:  yesterday came suddenly
```

[11]:
```
'ylneddus emac yadretsey'
```
