

Objective:

To work with functions.

Assignment:

1. Prompt the user to enter a sentence. Store the text as a string. After user input, the program should output the entered string before printing the menu options in part 2.

For example:

Please enter a sentence:

The most certain way to succeed is to always try one more time!

You entered: The most certain way to succeed is to always try one more time!

2. Display a Menu, as shown in the example below. Each option is represented by a single character.

For example:

You entered: The most certain way to succeed is to always try one more time!

MENU

c - Number of non-whitespace characters

w - Number of words

r - Reverse the order of the words in the sentence.

q – Quit.

Choose an option:

If an invalid character is entered, continue to prompt for a valid choice. Continue to display menu options until the user enters q to Quit.

3. Implement a function to count and returns the number of characters in the string, excluding all whitespace.

For example:

Number of non-whitespace characters: 51

4. Implement a function to returns the number of words in the string.

For example:

Number of words: 13

5. Implement a function to reverse each word of the entered sentence individually to display the sentence in reverse.

For example:

Output: time! more one try always to is succeed to way certain most The

Instructions:

- This will be done using Python 3.
- The program should include a comment block at the top with your name, course number, course section and assignment number.
For example: `# your name`
`# CSci 161 L01/L02/L03`
`# Assignment 4`
- Make sure to submit the solution with a .py extension (python file).
- Upload your file as your lastname_yourfirstname_assignmentnumber.py For example: lastname_firstname_4.py.