CS Adv. Programming Homework

Q1. Define and use a **function** to count the number of words in a string.

(***Hint****, there is always a space between two words. Counting the empty spaces between the words can help. Look into the slides on how to loop through a string, i.e., iterate over every character. The string topic slides covered it in detail. Make use of an 'if' statement to see if a character is equal to space/empty string. Have a counter variable to count the number of empty spaces…… a kind of proxy to the number of words in the string*)

```
[evaluate words.py]
Enter a string: The CS511 is getting harder and harder
The string contains 7 words

[evaluate words.py]
Enter a string: Hurray!! I won the game
The string contains 5 words

[evaluate words.py]
Enter a string: You need to finish Question-1 in the lab.
The string contains 8 words
```

Q2. Write a **function** that asks the user to (a) enter a string, (b) ask the number of times to repeat the string and (c) ask the user to input a delimiter to separate them. Call the function and append the test run to your solution. A few test-run of listed below to make you understand the behavior of the function.

```
[evaluate repeat.py]
Enter a string: Ted
How many repetitions? 10
Separated by? [}(+
Ted[}(+Ted[}(+Ted[}(+Ted[}(+Ted[}(+Ted[}(+Ted[}(+Ted[}(+Ted
```

```
[evaluate repeat.py]
Enter a string: Haroon
How many repetitions? 3
Separated by? |
Haroon|Haroon|Haroon
Enter a string: CS511 is a fun class
How many repetitions? 3
Separated by? :)
CS110 is a fun class:)CS511 is a fun class:)CS511 is a fun class
```

```
[evaluate repeat.py]
Enter a string: Good Work
How many repetitions? 4
Separated by?  ,
Good Work , Good Work , Good Work , Good Work
```