

ASSIGNMENT 3.3

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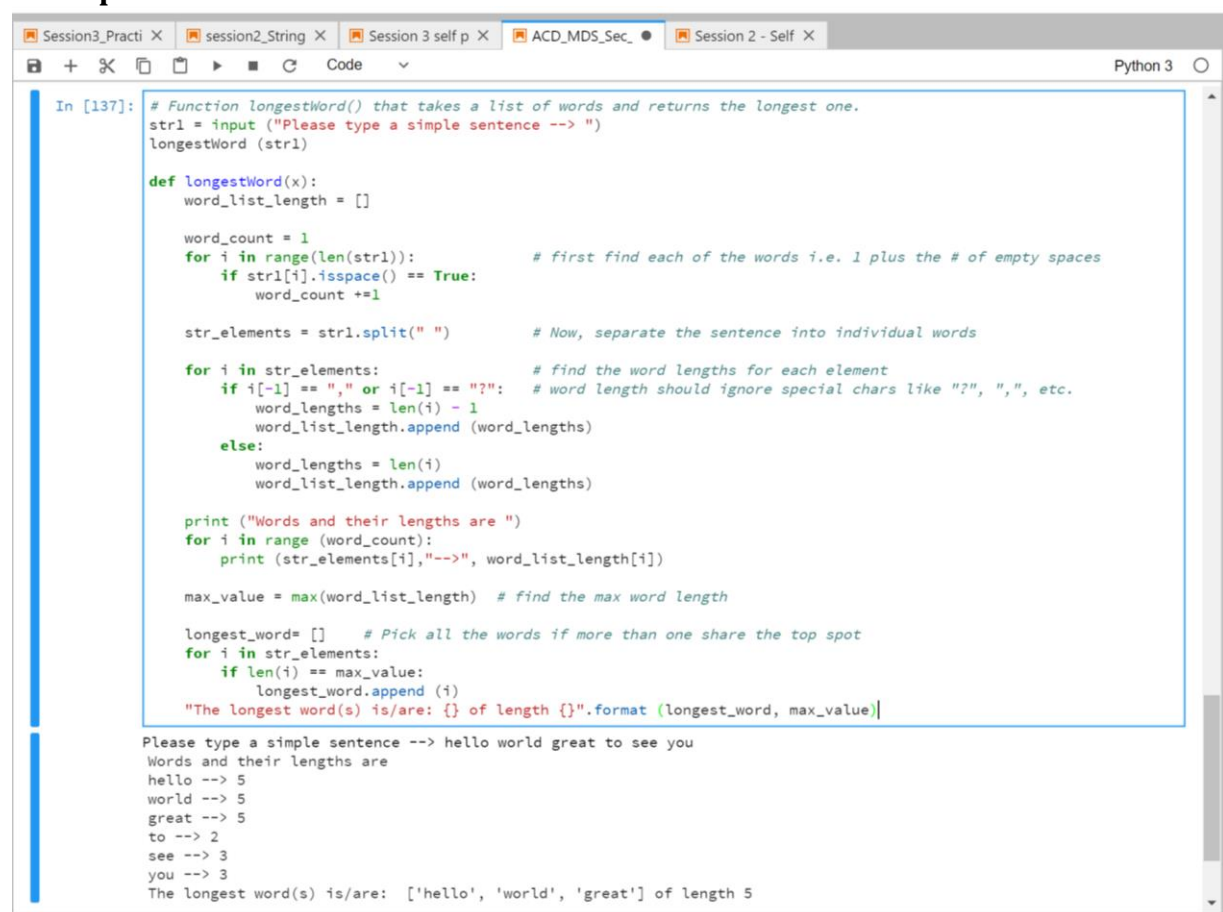
1. Introduction

This assignment will help you to consolidate the concepts learnt in the session.

2. Problem Statement

Implement a function `longestWord()` that takes a list of words and returns the longest one.

3. Output



```
In [137]: # Function longestWord() that takes a list of words and returns the longest one.
str1 = input("Please type a simple sentence --> ")
longestWord(str1)

def longestWord(x):
    word_list_length = []

    word_count = 1
    for i in range(len(str1)):
        if str1[i].isspace() == True:
            word_count += 1

    str_elements = str1.split(" ")

    for i in str_elements:
        if i[-1] == "," or i[-1] == "?":
            word_lengths = len(i) - 1
            word_list_length.append(word_lengths)
        else:
            word_lengths = len(i)
            word_list_length.append(word_lengths)

    print("Words and their lengths are ")
    for i in range(word_count):
        print(str_elements[i], "--> ", word_list_length[i])

    max_value = max(word_list_length)

    longest_word = []
    for i in str_elements:
        if len(i) == max_value:
            longest_word.append(i)

    "The longest word(s) is/are: {} of length {}".format(longest_word, max_value)

Please type a simple sentence --> hello world great to see you
Words and their lengths are
hello --> 5
world --> 5
great --> 5
to --> 2
see --> 3
you --> 3
The longest word(s) is/are: ['hello', 'world', 'great'] of length 5
```