

Directed Activities: Demonstrate your work for the instructor after each activity.

Learning Objectives: Use Python strings and lists. Use Python indexing and slicing facilities.

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Question 01) Name switching. Ask the user to enter a person's name in first-last order, and display the name in last-first order. For example, if the user enters the string "Thomas Jefferson", the output should be "Jefferson, Thomas" (don't forget the comma). Call the function `nameReverse()`.

\*Use the function `split()`. Can be found at the end of Monday's code/notes

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Question 02) Ask the user to enter a three-part internet domain name and print the company name only. For example, if the user enters the string "www.Amazon.com", the output should be "Amazon". Call the function `companyName()`.

\*Use the function `split()`. Can be found at the end of Monday's code/notes

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Question 03) Write a function, `initials()`, to ask the user to enter the names of the students in a class. The function should first ask how many names will be input. Then it should ask for the first name and last name of student 1, the name of student 2, the name of student 3, etc. For each student, it should determine the student's initials and output these initials. Sample input messages and output follows. User input is underlined.

Enter the first name of student 1: Adam  
Enter Adam's last name: Grant  
Adam's initials are TS

Enter the first name of student 2: David  
Enter David's last name: Remnick  
David's initials are DR

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Question 04) Word count. Do Exercise 9, p. 163, that counts the words in a sentence. Call the function `wordCount()`. For example, if the user enters the sentence "The quick brown fox jumps over the lazy dog", the output should be 9.

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Question 05) Word average. Do Exercise 10, p. 163, that averages length of the words in a sentence. Call the function `wordAverage()`. For example, if the user enters the sentence The quick brown fox jumps over the lazy dog, the output should be 3.88888888889. Use a loop to allow more than one sentence to be processed.

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Question 06) Pig Latin. Write a function, `pigLatin()`, that reads in a sentence and converts (and stores) it to a simplified form of pig Latin in which the first letter of each word is moved to the end of the word and is then followed by the letters "ay." You may assume that all words in the input sentence are separated by spaces and there is no punctuation, numerals, etc. appearing in the sentence.

The output should be the new sentence in all lower case regardless of the original typed string.

"Give peace a CHANCE" becomes "ivegay eacepay aay hancecay"

Upload the files to OAKS under the Assignments section.

Remove any files and folders you created on the desktop. Then empty your recycle bin. Log out of your Cougars account.

Log off of the computer you are using.