[Lab-Python] File Data Interactions

The goal of this lab is to retrieve and process the data from a file in different ways.

1. Open the “/etc/passwd” file using read only access and save the full file contents to a **str** data type (Note: you will need to select the correct read function to return a string).

Use the len() function to get the size? 3044\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the len() function counting? Characters\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When would you use this technique? Find out how many characters are in a file. Not terribly useful in this format unless you’re comparing files or something.

1. Open the “/etc/passwd” file using read only access and save the full file contents to a **list** data type (Note: you will need to select the correct read function to return a list).

Use the len() function to get the size? 53\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the len() function counting? Entries in the list separated by commas\_\_\_\_\_\_\_\_\_\_

When would you use this technique? Looping, verification, comparing objects, etc.

1. Open the “/etc/passwd” file using read only access and save the full file contents **one line at a time**. (Note: you will need to select the correct read function to return one line at a time and store it during each iteration of the loop).

The len() function will not work here, how do you get the total file length? Get the length of each line and add them together

What is the total file size? 3044

When would you use this technique? When you are working with larger files