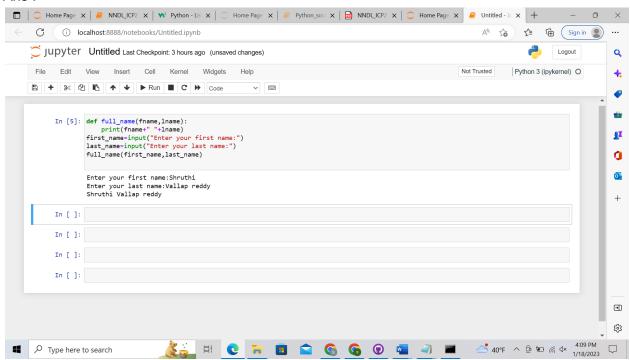
Spring 2023: CS5520 Neural Networks and Deep Learning - ICP-2

- 1) a) Write a program that takes two strings from the user: first_name, last_name. Pass these variables to the fullname function that should return the (full name).
- o For example:
 - First name = "your first name",
 - last_name = "your last name"
 - Full_name = "your full name"

Ans:



- 1. Created the function full name() which accepts two parameters fname and lname.
- 2. The variable first name reads the first name entered by the user
- 3. The variable last_name reads the last name entered by the user
- 4. The full_name() function is called in the main method and first_name and last_name parameters are passed to the full_name() function.
- 5. The full_name() functions concatenates the parameters passed to it and prints the output.
- Sample input

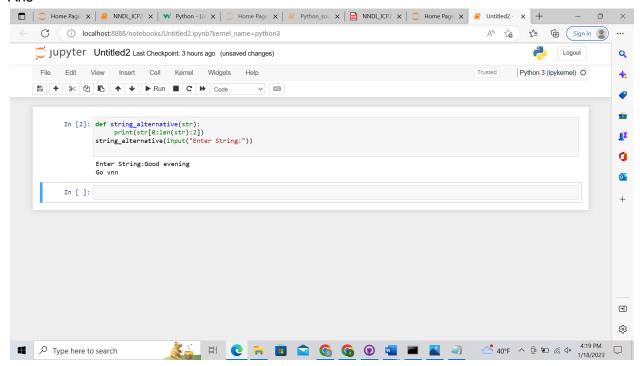
Enter your first name : Shruthi Enter your last name : Vallap reddy

Sample output

Shruthi Vallap Reddy

- b) Write a function named "string_alternative" that returns every other char in the full_name string.
 - Str = "Good evening"
 - Output: Go vnn

Ans



- 1) Created the function string_alternative() which accepts the parameter string str
- 2) The string_alternative() function is called in the main method and the string from the input console is passed to the function
- 3) The string_alternative() function will skip every other alternative character in the string and print the output.
- Sample Input

Enter String: Shruthi Vallapreddy

Sample Output

SrtiVlardy

- 2. Write a python program to find the word count in a file (input.txt) for each line and then print the output.
- o Finally store the output in the output.txt file.
 - Example:

Input: a file includes two lines:

Python Course

Deep Learning Course

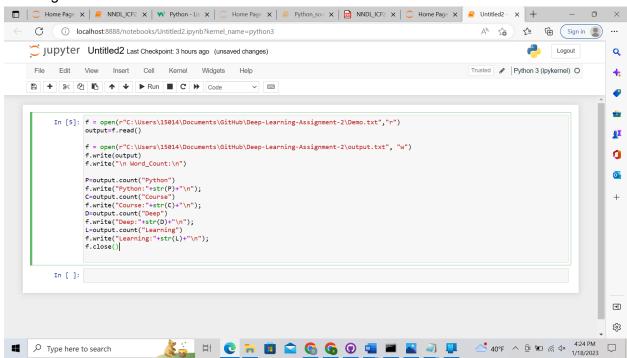
Output:

Python Course

Deep Learning Course

Word_Count:

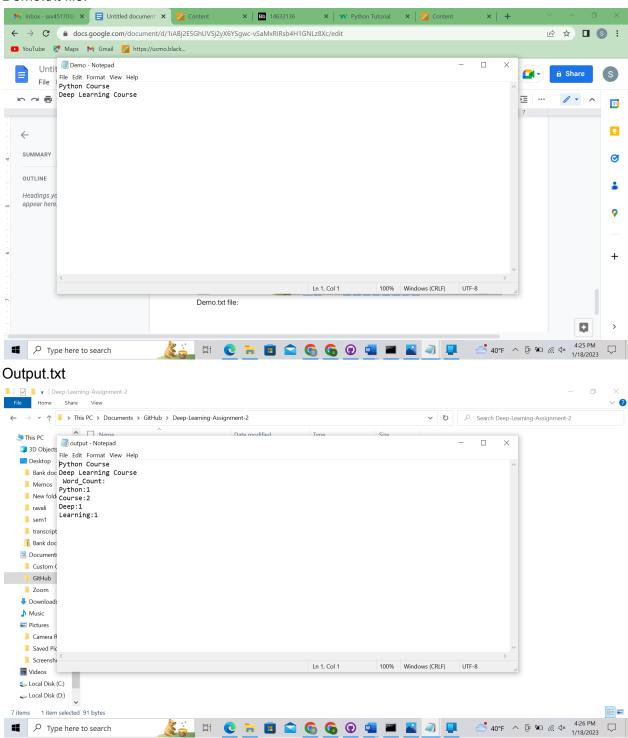
Python: 1 Course: 2 Deep: 1 Learning: 1



- 1) There is a Demo.txt file in location
 - "C:\Users\15014\Documents\GitHub\Deep-Learning-Assignment-2\Demo.txt" which has the input text for the program.
- 2) The output variable reads the text inside the Demo.txt file and stores it.
- Then we need to write the count of each word of the text inside Demo.txt into the new Output.txt file.
- 4) So we need to open the output.txt file at the location "C:\Users\15014\Documents\GitHub\Deep-Learning-Assignment-2\output.txt" in the write mode.
- 5) So here we used the count method of type string which returns occurrences of substring in string, count(substring, start=.., end=..) to print the word count

6) The Demo.txt file contains the input and the Output.txt file contains the output as shown below.

Demo.txt file:



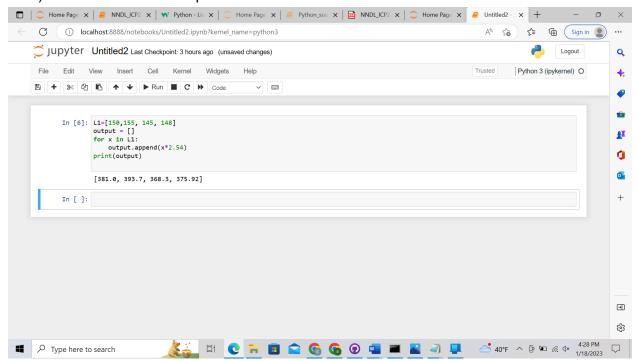
- 3. Write a program, which reads heights (inches.) customers into a list and convert these heights to centimeters in a separate list using:
- 1) Nested Interactive loop.
- 2) List comprehensions

Example:

L1: [150,155, 145, 148]

Output: [68.03, 70.3, 65.77, 67.13]

1) Nested Interactive loop



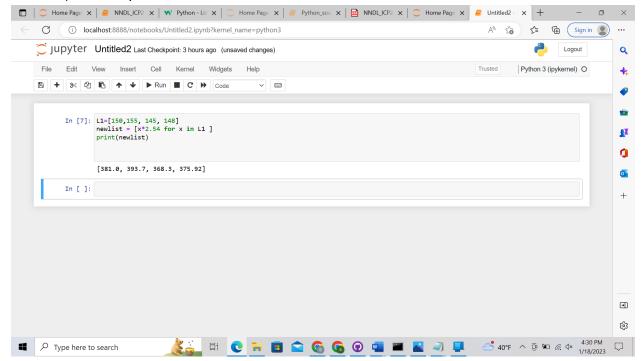
- 1) Have initialized the List named Li with the input as [150,155,145,148]
- 2) And also created the empty list with the name output.
- 3) Here we have used the for loop to convert each and every element in the List Li from inches to centimeters.
- 4) To convert inches to centimeters we need to multiply the inches with 2.54 1 inch = 2.54 centimeter
- 5) Each and every element in the Li list is multiplied with 2.54 and appended to List output simultaneously.
- 6) Finally the output is printed to the console using print function.
- Sample Input

L1: [150,155, 145, 148]

Sample Output

[381.0, 393.7, 368.3, 375.92]

2) List comprehensions



- 1) Have initialized the List named Li with the input as [150,155,145,148]
- 2) Here we have used List comprehensions which offer a shorter syntax when you want to create a new list based on the values of an existing list.
- 3) So the new values get assigned to the newlist [].
- 4) Finally the print function prints the output to the console
- Sample Input

L1: [150,155, 145, 148]

Sample Output

[381.0, 393.7, 368.3, 375.92]

Git repo link: https://github.com/ShruthiVallapReddy/NNDL-Assignment-2.git