Spring 2024: CS5720

Neural Networks and Deep Learning - ICP-2

1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname function that should return the (full name).
    - For example:
        - First_name = “your first name”, last_name = “your last name”
        - Full_name = “your full name”
    - Write function named “string_alternative” that returns every other char in the full_name string.
      Str = “**G**o**o**d e**v**e**n**i**n**g”
      Output: Go vnn

   Note: You need to create a function named “string_alternative” for this program and call it from main function.

2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output.
    - Finally store the output in **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

3. Write a program, which reads heights (inches.) of 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]

** Follow the IPC rubric guidelines.

Submission Guidelines:

1. Once finished present your work during class time.

After class submission:

1. Complete your work and submit to your repo before the deadline.
2. Submit your source code to GitHub and represent the work in pdf as directed in first class.
3. Record a short video (1~3) minute, explaining the technical part and method used.
4. Add video link to the pdf file.

Note: *Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy.*