Spring 2024: CS5720

# Neural Networks and Deep Learning - ICP-2

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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.

* 1. **Code**

**first\_name="Bhuvana"**

**last\_name="Nandhimalla"**

**def fullname(first\_name,last\_name):**

**return first\_name+ " " +last\_name**

**print(fullname(first\_name , last\_name))**

Output:

**A screenshot of a computer

Description automatically generated**

* 1. **Code**

**str = "Good evening"**

**def string\_alternative(string):**

**res = ""**

**for i in range(0,len(string),2):**

**res += string[i]**

**print (res)**

**def main():**

**string\_alternative(str)**

**main()**

**Output:**

**A screenshot of a computer

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**Description**: Two functions are defined in this program: string\_alternative, which returns all other characters in a given string, and fullname, which concatenates the first and last names. The intended output is displayed by the main function after it receives user input, calls the fullname function, and then calls the string\_alternative function.

1. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output.
   1. 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

A screenshot of a computer

Description automatically generated

Description: the content are mentioned is in an input.txt file. The output will be printed and saved in the output.txt file once the application has finished running. To determine how many times each word appears in a line, the software use the word\_count function.

1. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:
2. Nested Interactive loop.
3. [List comprehensions](https://www.w3schools.com/python/python_lists_comprehension.asp)

# Example: L1: [150,155, 145, 148]

**Output: [68.03, 70.3, 65.77, 67.13]**

A screenshot of a computer program

Description automatically generated

Description: To convert heights from inches to centimeters, this program defines the function inches\_to\_centimeters. The user-inputted heights in inches are then converted to centimeters using nested interactive loops and list comprehensions, and the results are stored in different lists. In the end, the program uses both techniques to print the heights in centimeters.

Source code: C:\Users\bhuva\OneDrive\Desktop\Neural\Assignment2

Git hub link: <https://github.com/BhuvanaNandhimalla/NeuralNetworks_Assignment2>

Video link: https://drive.google.com/file/d/1e286-xODODtKlU-QLY8r3TQq1QYIuBOy/view?usp=sharing