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**Neural Networks and Deep Learning - ICP-2**

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**Github Link:**

1. Write a program that takes two strings from the user: first\_name, last\_name. Pass these variables to full name 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”

**A screenshot of a computer code

Description automatically generated**

**Explanation:**

* Enter inputs for entering first name and last name.
* Full name is then printed which includes first name and last name.

**1.2**

* Write function named “string\_alternative” that returns every other char in the full\_name string. Str=“Good evening”

Note: You need to create a function named “string\_alternative” for this program and call it from main function. A computer screen shot of a code

Description automatically generated**Explaination:**

* Consider an input string called good evening
* If the number of characters are divisible by 2 and equal to 0 print the incremented output string
* Otherwise, return the output string which prints every alternative character of the string.

**2.**

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

o 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 computer screen shot of a program

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**Explanation:**

* Consider the input.txt in a file.
* File.read() reads the data given in the file. data.splits() splits the word and stores in words
* It prints the number of word count in the given file.

**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.

**A screenshot of a computer code

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2) List comprehensions

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**Exaplaination :**

* Consider a list of numbers, for the first one it converts inches to cm. we use append function to print the list
* In list comprehension, without using nested interactive loop printing the list which converts the height in inches to cm.