**Revathi Atchi**

**700742168**

**NEURAL NETWORK AND DEEP LEARNING ASSIGNMENT-2**

**GITHUB LINK**: - <https://github.com/revathiatchi/NeuralAssignment2.git>

**RECORDINGLINK:** <https://github.com/revathiatchi/NeuralAssignment2/assets/156601745/0ca76e7f-042b-4efa-9e47-cd906a545b44>

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”

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

    return first\_name + " " + last\_name

first\_name = "Revathi"

last\_name = "Atchi"

print("Full Name:", fullname(first\_name, last\_name))

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**Output: -**



1. 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

def str\_alternative(Str):

    return Str[::2]

print(str\_alternative("Good evening"))

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Description automatically generated

**Output: -**



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

text = open("input.txt", "r")

d = dict()

for line in text:

    line = line.strip()

    line = line.lower()

    words = line.split(" ")

    for word in words:

        if word in d:

            d[word] = d[word] + 1

        else:

            d[word] = 1

file1 = open('output.txt', 'w')

s=""

for key in list(d.keys()):

    s += key+ ":" + str(d[key])+ "\n"

file1.write(s)

file1.close()

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**Output**: -

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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.

heights = [150, 155, 145, 148]

centimeters = []

for height in heights:

    cm = height \* 2.54

    centimeters.append(cm)

print("Heights in inches:", heights)

print("Heights in centimeters:", centimeters)

A screenshot of a computer code

Description automatically generated

**Output**: -



1. **List comprehensions**

heights = [150, 155, 145, 148] #

centimeters = [round(height \* .45,2) for height in heights]

print("Heights in inches:", heights)

print("Heights in centimeters:", centimeters)

A screenshot of a computer code

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**Output**: -

