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

GITHUB LINK: - https://github.com/aknomula/NNAssignment2.git

#### RECORDINGLINK:

https://drive.google.com/file/d/1rPFaz2mqD7\_wemXdGhOZ6ChoB9VUqeK2/view?usp=sharing

- 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)
- a) 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 = "Akhila"
last_name = "Reddy"

print("Full Name:", fullname(first_name, last_name))
```

#### Output: -

Full Name: Akhila Reddy

b) Write function named "string\_alternative" that returns every other char in the full\_name string. Str = "Good evening" Output: Go vnn

```
def str_alternative(Str):
    return Str[::2]

print(str_alternative("Good evening"))
```

#### Output: -

Go vnn

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.

```
] 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
       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()
```

#### Output: -

input.txt × output.txt

```
1 Python Course

2 Deep Learning Course

input.txt output.txt ×

1 python:1
2 course:2
3 deep:1
4 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: Example: L1: [150,155, 145, 148]
- a) 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)
```

### Output: -

```
Heights in inches: [150, 155, 145, 148]
Heights in centimeters: [381.0, 393.7, 368.3, 375.92]
```

## b) List comprehensions

```
heights == [150,155, 145, 148] # sample list of heights in inches

centimeters == [round(height * 2.54, 2) for height in heights] # convert each height in inches to centimeters

print("Heights in inches:", heights)

print("Heights in centimeters:", centimeters)
```

## Output: -

Heights in inches: [150, 155, 145, 148]

Heights in centimeters: [381.0, 393.7, 368.3, 375.92]