

# NEURAL NETWORK & DEEP LEARNING

## ASSIGNMENT 2

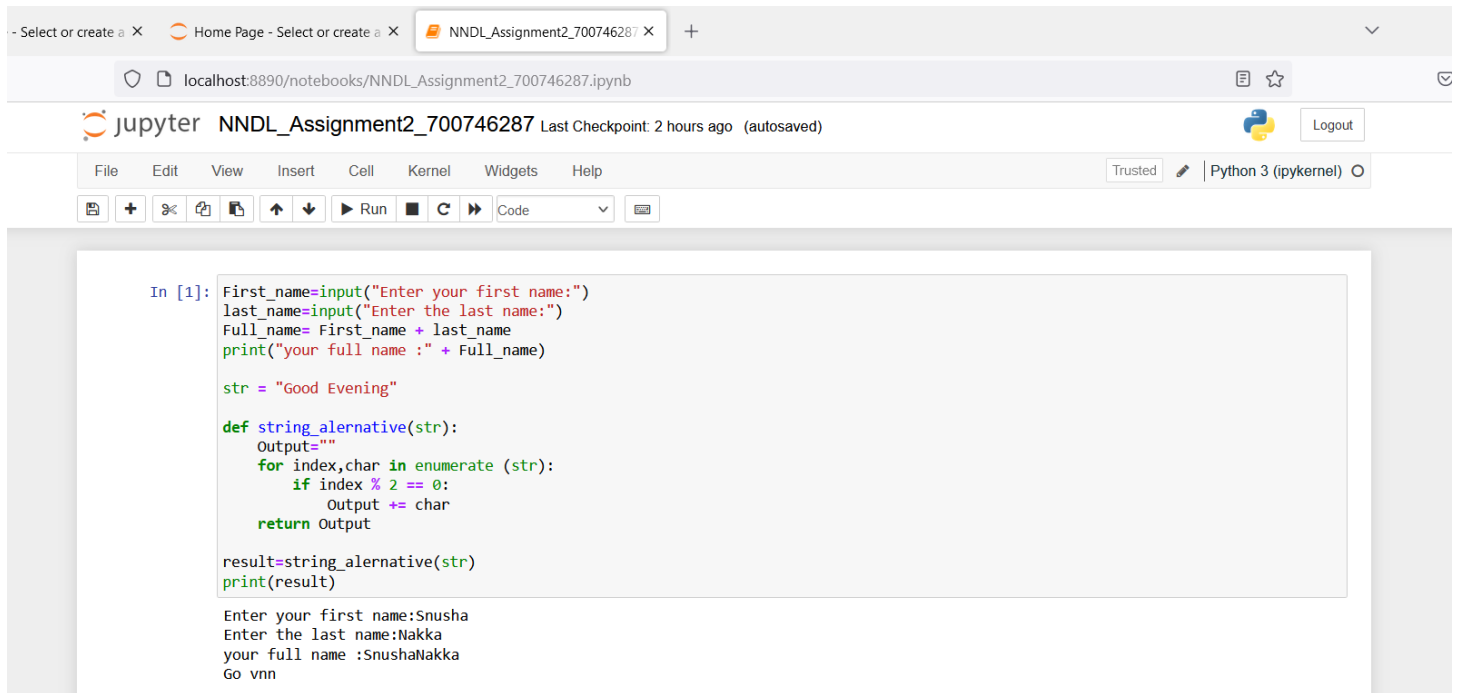
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Git hub Link: [https://github.com/NSnusha/NNDL\\_Assignment2](https://github.com/NSnusha/NNDL_Assignment2)

Video link:

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). o For example: ▪ First\_name = "your first name", last\_name = "your last name" ▪ Full\_name = "your full name" o Write function named "string\_alternative" that returns every other char in the full\_name string. Str = "Good evening" Output: Go vnn Note: You need to create a function named "string\_alternative" for this program and call it from main function.



```
In [1]: First_name=input("Enter your first name:")
last_name=input("Enter the last name:")
Full_name= First_name + last_name
print("your full name : " + Full_name)

str = "Good Evening"

def string_alernative(str):
    Output=""
    for index,char in enumerate (str):
        if index % 2 == 0:
            Output += char
    return Output

result=string_alernative(str)
print(result)

Enter your first name:Snusha
Enter the last name:Nakka
your full name :SnushaNakka
Go vnn
```

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

The screenshot displays a Google Colab notebook interface. The top bar shows the notebook title "NNDL\_Assignment2\_2ndquestion\_700746287.ipynb" and the URL "colab.research.google.com/drive/1-63gAQ25dit6-cRwrgRWT0wMlpPyAt78#scrollTo=Jax-9lgVpMBH". The left sidebar shows the file explorer with a folder "sample\_data" containing "input.txt.txt" and "output.txt". The main area shows a code cell with the following Python code:

```
[ ]  
  
New Section  
  
import re  
freq_word = {}  
text_read= open('input.txt.txt', 'r')  
text_string = text_read.read().lower()  
match_pattern = re.findall(r'\b[a-z]{3,15}\b', text_string)  
for word in match_pattern:  
    count = freq_word.get(word,0)  
    freq_word[word] = count + 1  
  
frequency_list = freq_word.keys()  
  
f= open("output.txt","w")  
for words in frequency_list:  
    result= words + " " + str(freq_word[words])  
    f.write(result+"\n")
```

The right sidebar shows the file explorer with "input.txt.txt" and "output.txt". The "output.txt" file is open, showing the following content:

```
1 Deep Learning  
2 Sai snusha Nakka  
3
```

The bottom status bar shows "0s completed at 5:28 PM". The taskbar at the bottom shows the system clock as 6:31 PM on 8/24/2023.

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]

Go vnn

```
In [24]: lst=list(map(int,input().split(" ")))
lst1=[]
for i in range(0,len(lst)):
    lst1.append(lst[i]/2.54)
for i in range(0,len(lst1)):
    lst1[i]=round(lst1[i],2)
print(lst1)
```

```
150 145
[59.06, 57.09]
```

In [ ]: