

NEURAL NETWORK & DEEP LEARNING

ASSIGNMENT 2

Name : SAI SNUSHA NAKKA

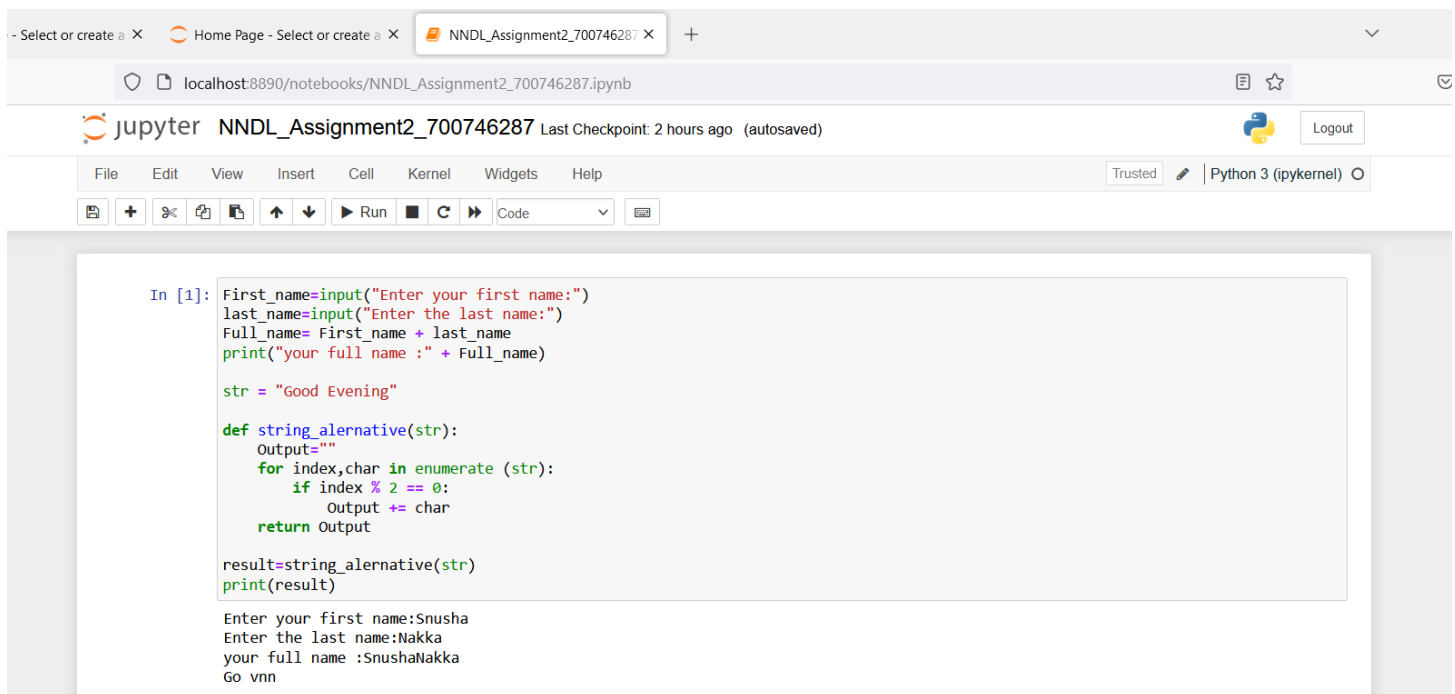
Student ID : 700746287

Git hub Link: https://github.com/NSnusha/NNDL_Assignment2

Video link:

https://drive.google.com/file/d/1dDQS0FwpEpztfKr_HUNMAnzC7Oa6hbd/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). 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.



The screenshot shows a Jupyter Notebook interface with a browser window at localhost:8890. The notebook is titled "NNDL_Assignment2_700746287" and shows a Python 3 (ipykernel) environment. The code in the notebook is as follows:

```
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"

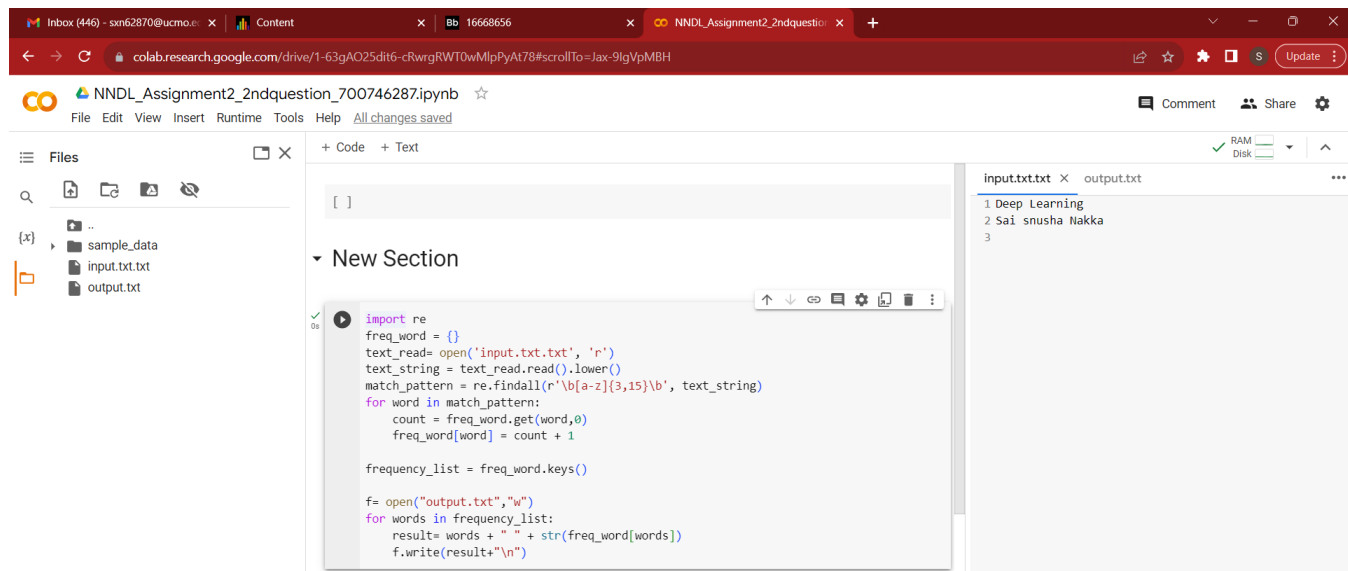
def string_alernative(str):
    output=""
    for index,char in enumerate (str):
        if index % 2 == 0:
            Output += char
    return Output

result=string_alernative(str)
print(result)
```

The output of the code is:

```
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 shows a Google Colab notebook interface. The browser tabs at the top include 'Inbox (446)', 'Content', '16668656', and 'NNDL_Assignment2_2ndquestion'. The URL bar shows a Google Drive link. The notebook title is 'NNDL_Assignment2_2ndquestion_700746287.ipynb'. The left sidebar shows a file explorer with 'sample_data', 'input.txt.txt', and 'output.txt'. The main code area contains a Python script that reads 'input.txt.txt', processes each line to count words, and writes the results to 'output.txt'. The script uses a regular expression to find words and a dictionary to count their frequency. The output file 'output.txt' is shown on the right, containing the word counts for each line of the input file.

```
[ ]
```

New Section

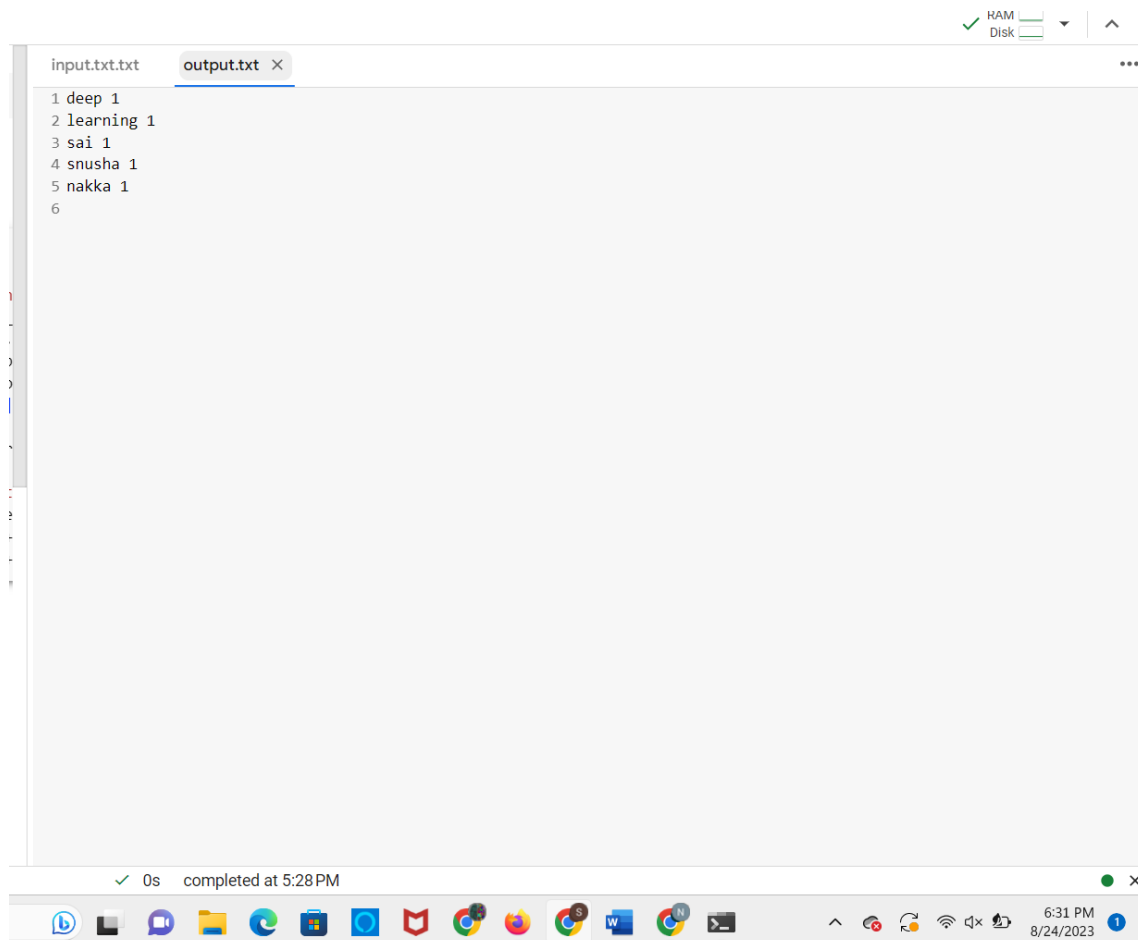
```
import re
freq_word = {}
text_read= open('input.txt.txt', 'r')
text_string = text_read.read().lower()
match_pattern = re.findall(r'\b[a-z]{3,15}\b', text_string)
for word in match_pattern:
    count = freq_word.get(word,0)
    freq_word[word] = count + 1

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")
```

input.txt.txt x output.txt

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



The screenshot shows the 'output.txt' file in the Colab interface. The file contains the word counts for each line of the input file 'input.txt.txt'. The output is as follows:

```
1 deep 1
2 learning 1
3 sai 1
4 snusha 1
5 nakka 1
6
```

input.txt.txt x output.txt

0s completed at 5:28 PM

6:31 PM 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 []: