

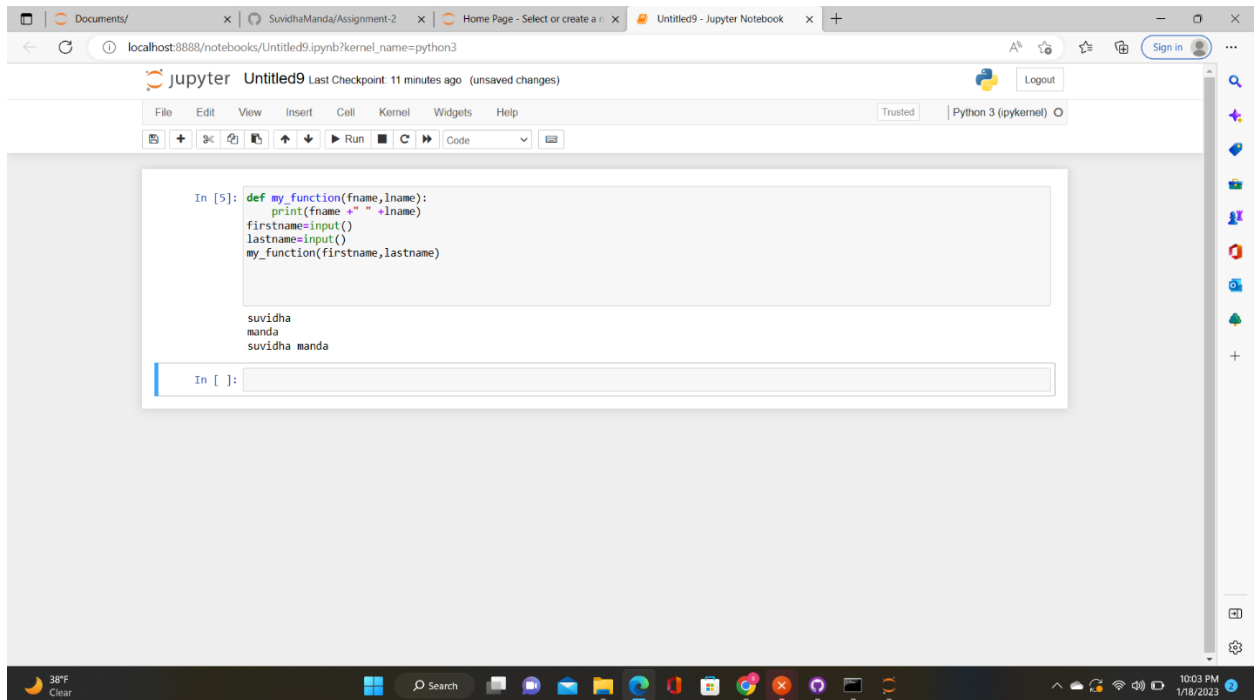
# NEURAL NETWORKS AND DEEP LEARNING

## ASSIGNMENT – 2

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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”



The screenshot shows a Jupyter Notebook window titled 'Untitled9' running on a local host. The code in the notebook is as follows:

```
In [5]: def my_function(fname,lname):  
        print(fname + " " +lname)  
        fname=input()  
        lname=input()  
        my_function(fname,lname)
```

The output of the code is displayed below the code cell:

```
suvidha  
manda  
suvidha manda
```

The Jupyter Notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations, and a status bar at the bottom showing the temperature (38°F) and the date (1/18/2023).

Here, I have created function name my\_function, which is fname and lname and the console will print the output as fname + lname.

For example:

fname=Suvidha

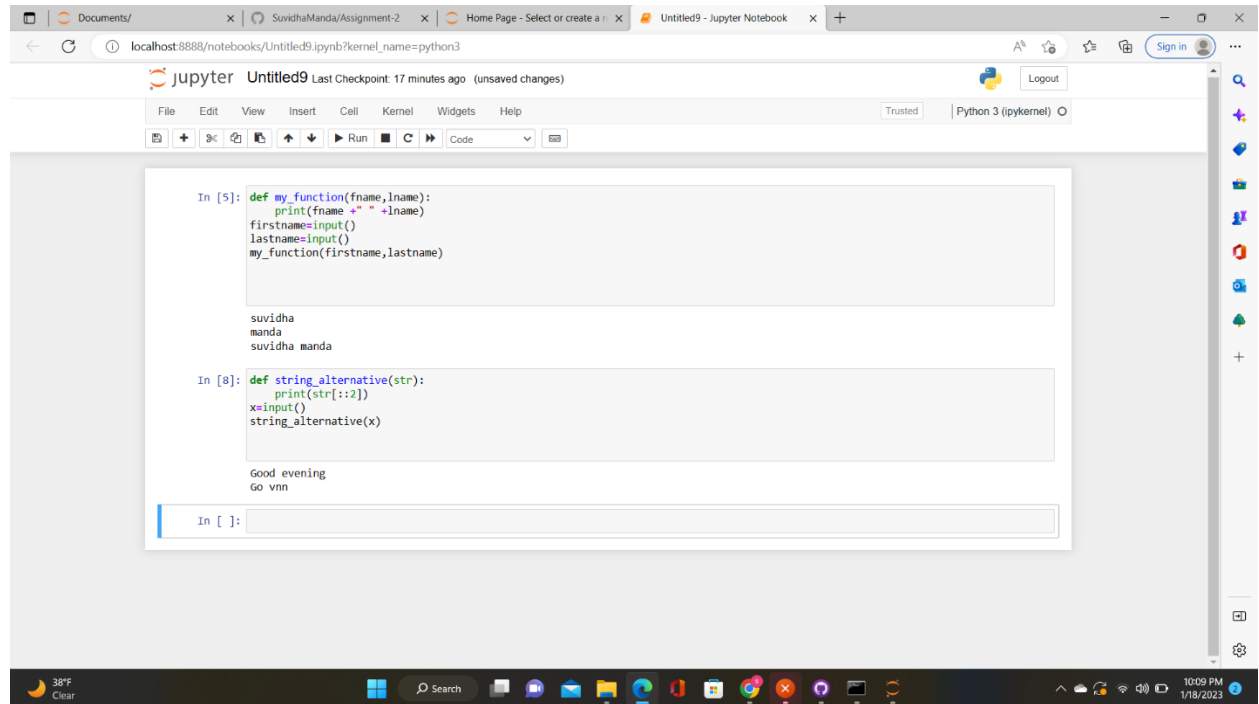
lname=manda

my\_function(fname,lname) shows = Suvidha manda.

- b. Write function named “string\_alternative” that returns every other char in the full\_name string.

Str = “Good evening”

Output: Go vnn



```
In [5]: def my_function(fname,lname):
        print(fname+" "+lname)
        firstname=input()
        lastname=input()
        my_function(firstname,lastname)

suvidha
manda
suvidha manda

In [8]: def string_alternative(str):
        print(str[::2])
        x=input()
        string_alternative(x)

Good evening
Go vnn
```

I have defined the function name “string\_alternative” which will return every other character from the string.

For example:

Str = Suvidha

Svda.

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.

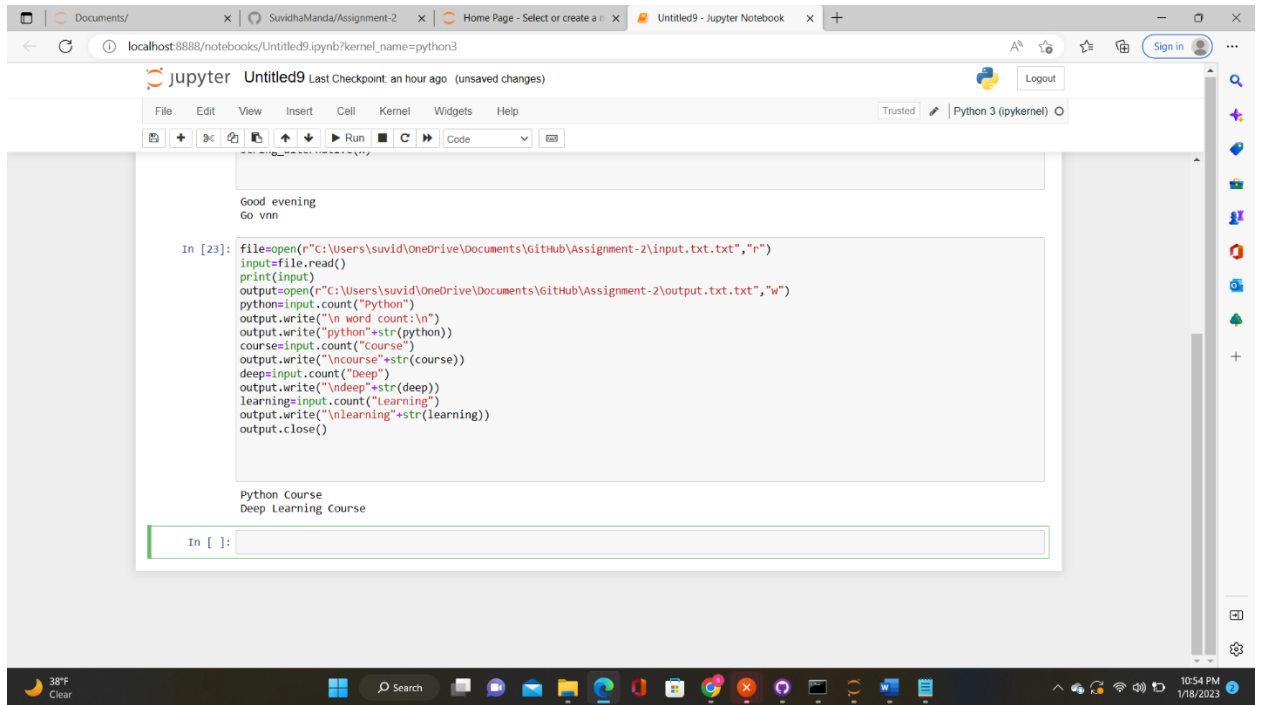
Example:

Input:

a file includes two lines:

Python Course

Deep Learning Course



The screenshot shows a Jupyter Notebook titled 'Untitled9' running on a local host. The notebook contains a Python script that reads from an input file and writes word counts to an output file. The output of the script is displayed below the code cell.

```
In [23]: file=open(r"C:\Users\suv\OneDrive\Documents\GitHub\Assignment-2\input.txt","r")
input=file.read()
print(input)
output=open(r"C:\Users\suv\OneDrive\Documents\GitHub\Assignment-2\output.txt","w")
python=input.count("python")
output.write("\n word count:\n")
output.write("python"+str(python))
course=input.count("course")
output.write("\ncourse"+str(course))
deep=input.count("deep")
output.write("\ndeep"+str(deep))
learning=input.count("learning")
output.write("\nlearning"+str(learning))
output.close()
```

Python Course  
Deep Learning Course

Here I have given a function name as file and as specified I have created a input text file and output text file. Where it contains the word count of the given data. Which is:

Python course

Deep learning course.

As specified in the output it clearly shows the word count of python as 1, course as 2, deep as 1 and learning as 1. Thereby it satisfies the given condition.

3. Write a program, which reads heights (inches.) 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]

```
output.write("\n word count:\n")
output.write("python"+str(python))
course=input.count("course")
output.write("\ncourse"+str(course))
deep=input.count("deep")
output.write("\ndeep"+str(deep))
learning=input.count("learning")
output.write("\nlearning"+str(learning))
output.close()

Python Course
Deep Learning course

In [26]: a1=[150,155,145,148]
output = []
for n in a1:
    output.append(n*2.54)
print(output)
newlist = [n*2.54 for n in a1]
print(newlist)

[381.0, 393.7, 368.3, 375.92]
[381.0, 393.7, 368.3, 375.92]
```

I have written the code which read the height in inches and converts the height in inches to centimeters. The given set of values [150,155,145,148] in inches will be converted to [381.0,393.7,368.3,375.92] in centimeters using the nested interactive loop.

Git repo link : <https://github.com/SuvidhaManda/Assignment-2.git>