

Spring 2024: CS5720 Neural Networks & Deep Learning - ICP-2

Assignment-2

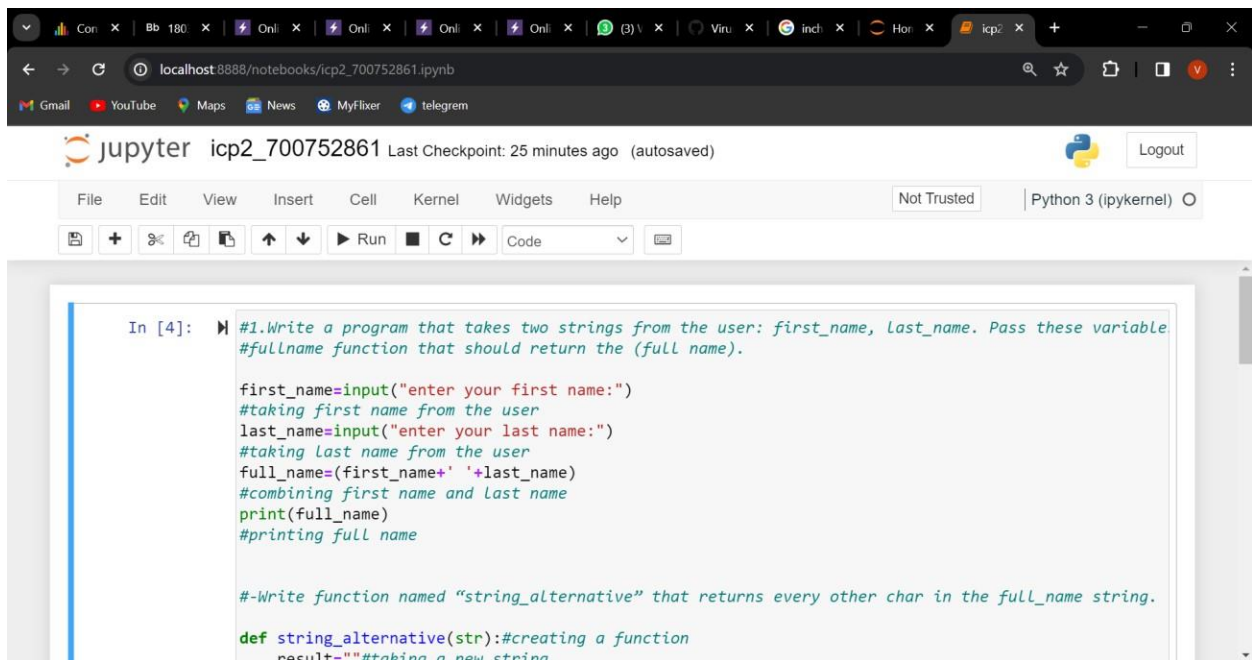
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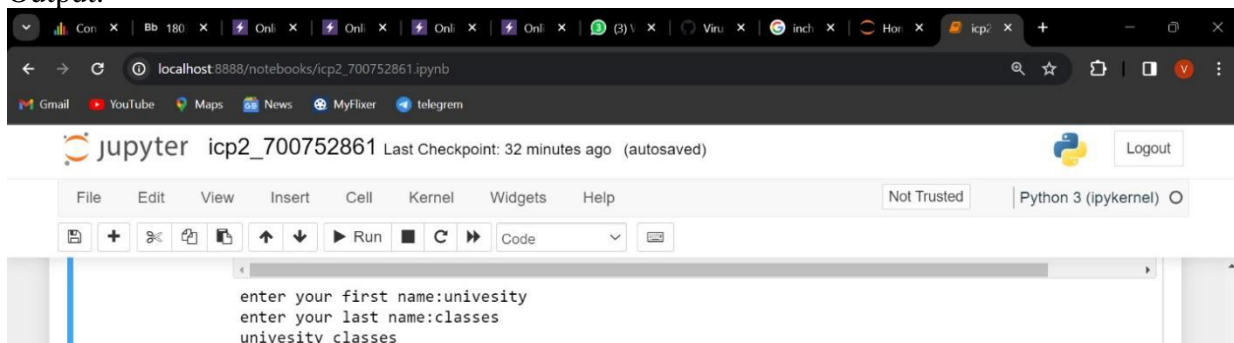
Github link: https://github.com/PushkaraChakka/Assignment_2_icp2

Video link: <https://drive.google.com/file/d/1hvOCkzIlhPnhFSw47tlxYpKY-yKHNJB5/view?usp=sharing>

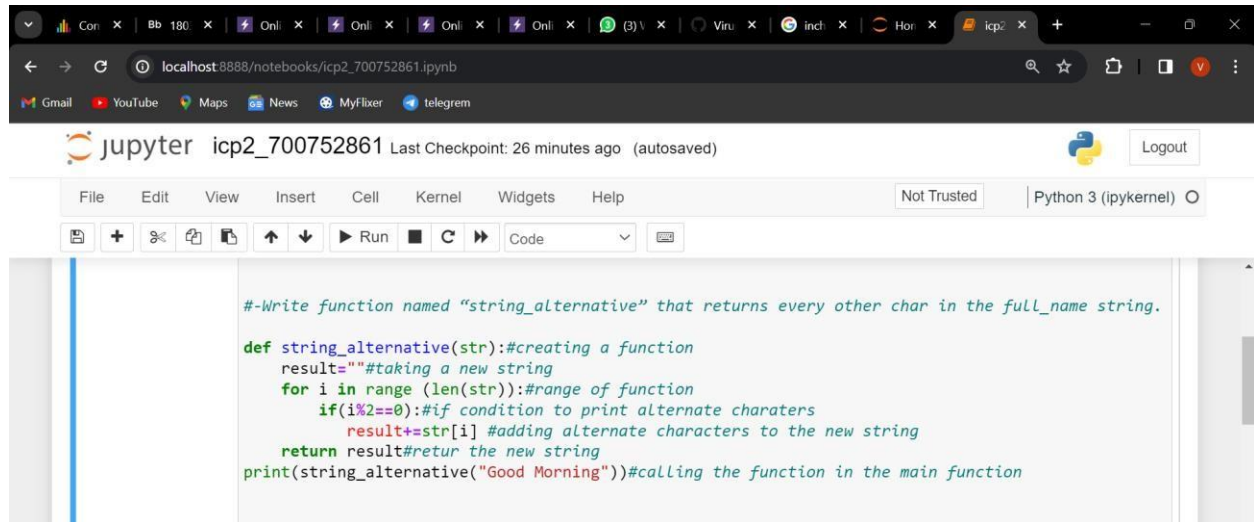
1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to full name function that should return the (full name).



Output:



-Write function named "string_alternative" that returns every other char in the full_name string. Str = "Good evening"




The screenshot shows a Jupyter Notebook window with the URL `localhost:8888/notebooks/icp2_700752861.ipynb`. The notebook is titled "icp2_700752861" and shows a single code cell. The code in the cell is as follows:

```
#-Write function named "string_alternative" that returns every other char in the full_name string.

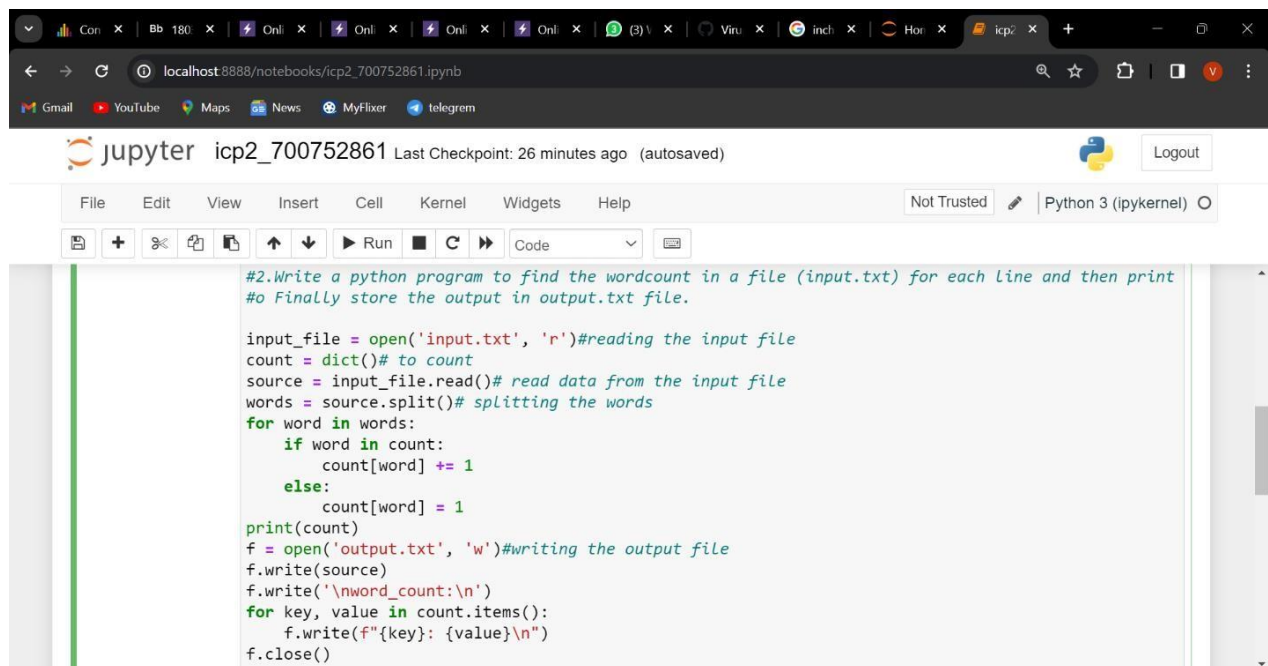
def string_alternative(str):#creating a function
    result=""#taking a new string
    for i in range (len(str)):#range of function
        if(i%2==0):#if condition to print alternate charaters
            result+=str[i] #adding alternate characters to the new string
    return result#retur the new string
print(string_alternative("Good Morning"))#calling the function in the main function
```

Output:



The output of the code cell is the string "Goon", which is the result of taking every other character from the input string "Good Morning".

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.



The screenshot shows a Jupyter Notebook window with the URL `localhost:8888/notebooks/icp2_700752861.ipynb`. The notebook is titled "icp2_700752861" and shows a single code cell. The code in the cell is as follows:

```
#2.Write a python program to find the wordcount in a file (input.txt) for each line and then print
#o Finally store the output in output.txt file.

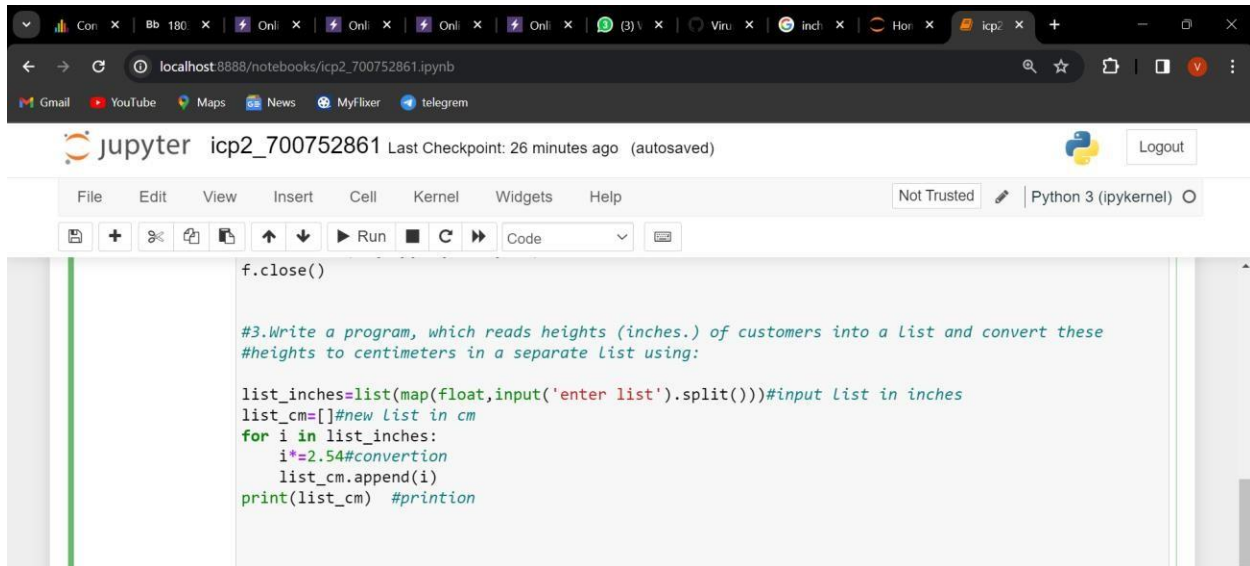
input_file = open('input.txt', 'r')#reading the input file
count = dict()# to count
source = input_file.read()# read data from the input file
words = source.split()# splitting the words
for word in words:
    if word in count:
        count[word] += 1
    else:
        count[word] = 1
print(count)
f = open('output.txt', 'w')#writing the output file
f.write(source)
f.write('\nword_count:\n')
for key, value in count.items():
    f.write(f"{key}: {value}\n")
f.close()
```

Output:



The output of the code cell is the dictionary `{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}`, which represents the word count for each word in the input file.

3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:



The screenshot shows a Jupyter Notebook interface in a web browser. The browser's address bar shows the URL `localhost:8888/notebooks/icp2_700752861.ipynb`. The Jupyter Notebook header displays the name `icp2_700752861` and indicates the last checkpoint was 26 minutes ago. The interface includes a menu bar with options like File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. Below the menu is a toolbar with icons for saving, running, and other notebook functions. The main area contains a code cell with the following Python code:

```
f.close()

#3. Write a program, which reads heights (inches.) of customers into a list and convert these
#heights to centimeters in a separate list using:

list_inches=list(map(float,input('enter list').split()))#input List in inches
list_cm=[]#new list in cm
for i in list_inches:
    i*=2.54#conversion
    list_cm.append(i)
print(list_cm) #printion
```

Output:



The output area shows the result of running the code cell. It displays the input prompt and the resulting list of heights in centimeters:

```
enter list56 57 58 59
[142.24, 144.78, 147.32, 149.86]
```