

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

Assignment-2

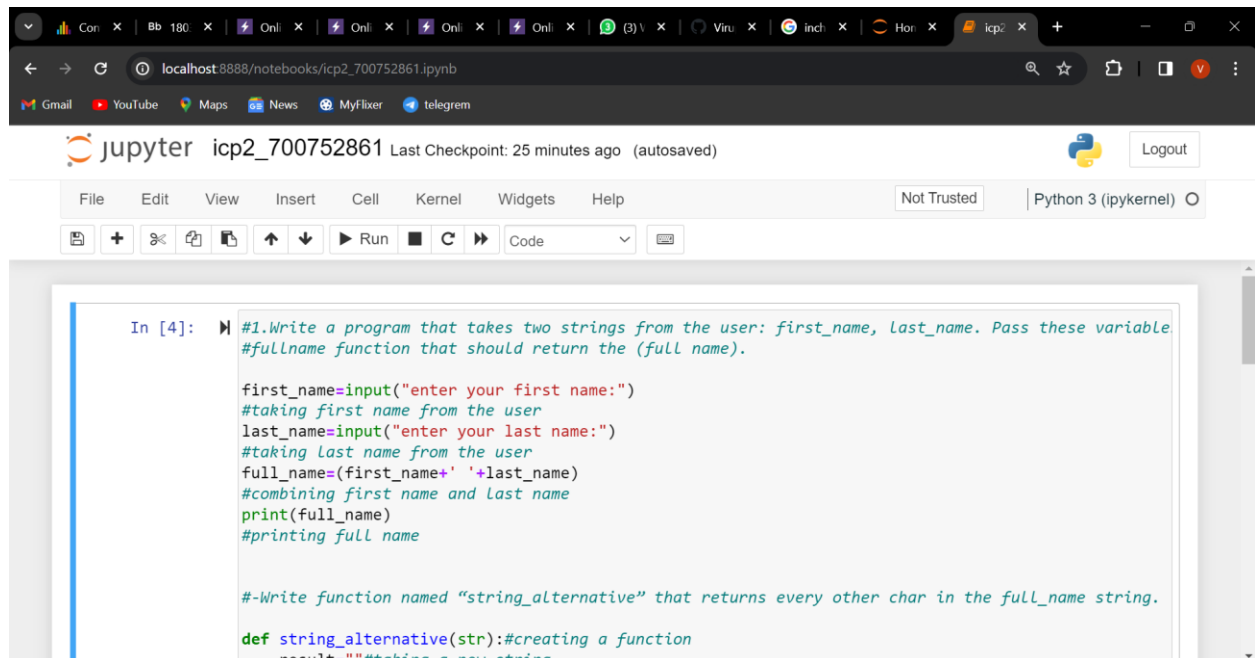
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Github link: https://github.com/PushkaraChakka/Assignment_1

Video link:

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).



The screenshot shows a Jupyter Notebook window titled 'jupyter icp2_700752861'. The browser address bar shows 'localhost:8888/notebooks/icp2_700752861.ipynb'. The notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for saving, running, and other actions. The code cell contains the following Python code:

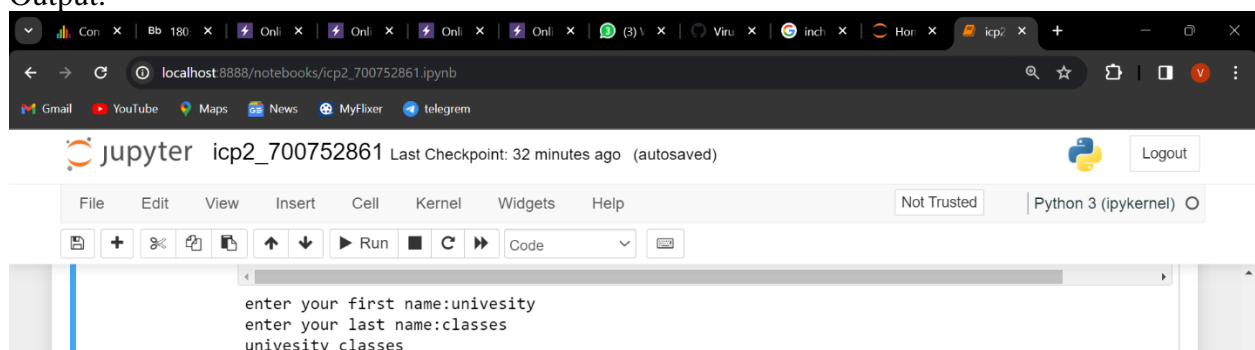
```
In [4]: #1. Write a program that takes two strings from the user: first_name, last_name. Pass these variable
#fullname function that should return the (full name).

first_name=input("enter your first name:")
#taking first name from the user
last_name=input("enter your last name:")
#taking last name from the user
full_name=(first_name+' '+last_name)
#combining first name and last name
print(full_name)
#printing full name

#-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
```

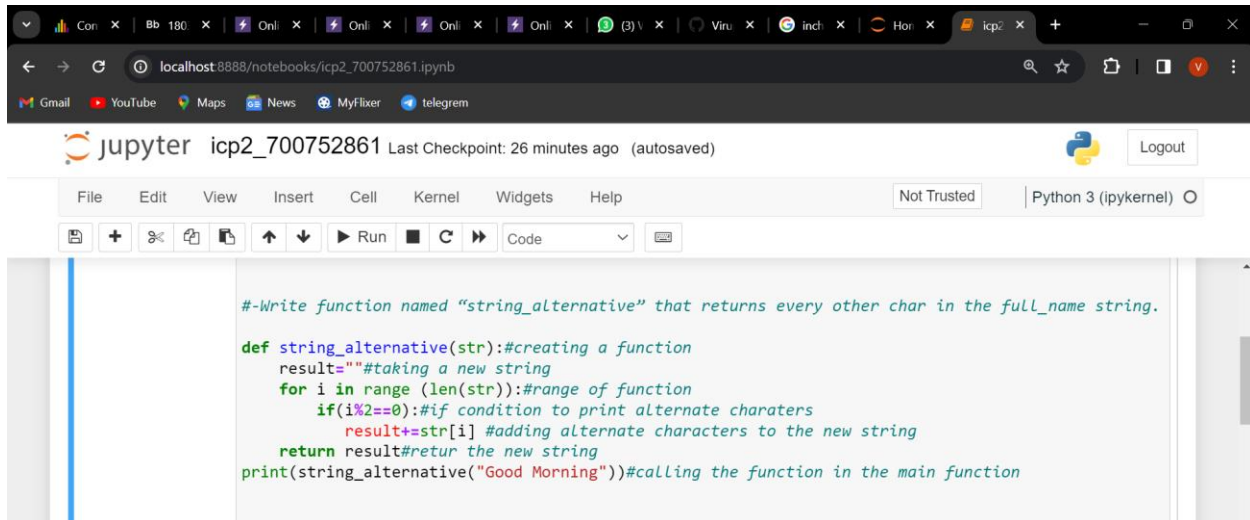
Output:



The screenshot shows the output of the Jupyter Notebook. The code cell is empty, and the output area displays the following text:

```
enter your first name:univesity
enter your last name:classes
univesity classes
```

-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 contains a single code cell with the following Python code:

```
#-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
```

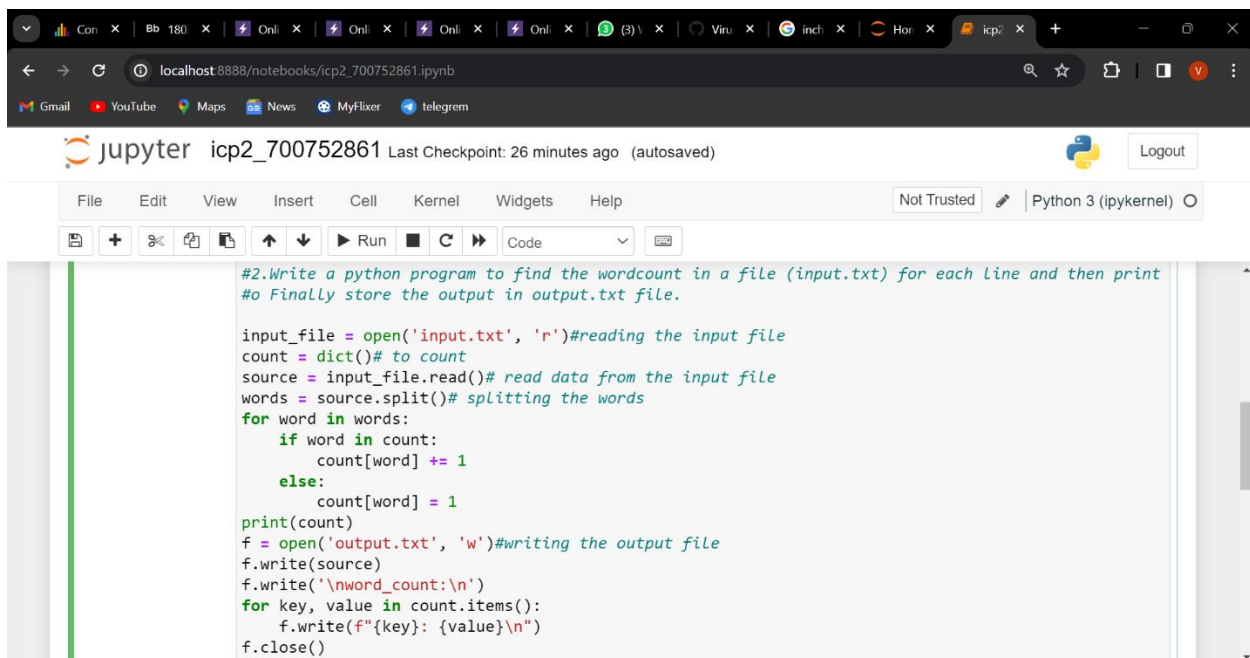
Output:



The output of the code cell is:

```
Good onn
```

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 contains a single code cell with the following Python code:

```
#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()
```

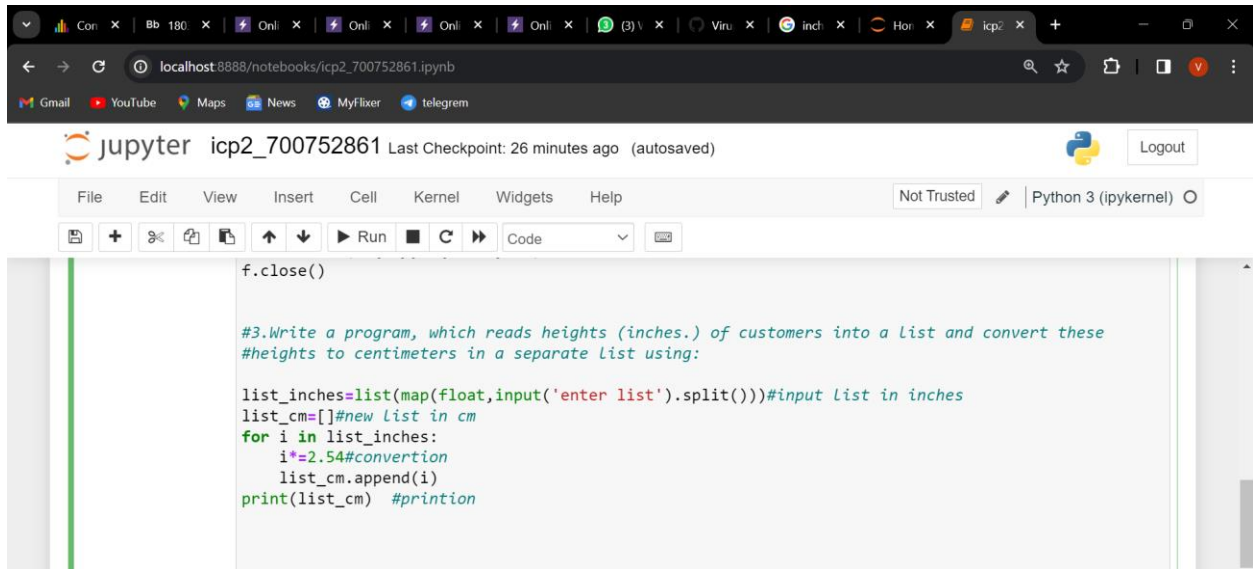
Output:



The output of the code cell is:

```
{'Python': 1, 'Course': 2, 'Deep': 1, '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:




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 notebook's toolbar includes options for File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. The code cell contains 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 input prompt `enter list` followed by the user input `56 57 58 59`. Below this, the output of the program is displayed as a list: `[142.24, 144.78, 147.32, 149.86]`.