

# Spring 2024:CS5720 NEURAL NETWORK AND DEEP LEARNING

## CRN:22317 Assignment-2

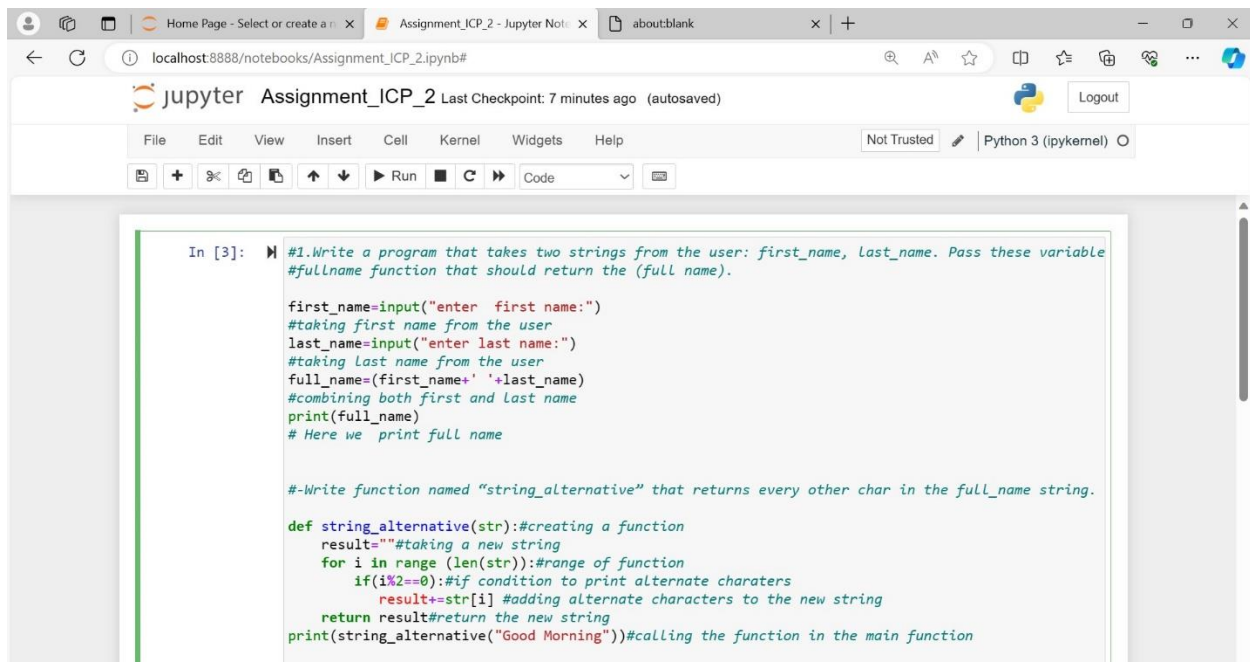
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GitHub link: <https://github.com/SaiSushmaSriBireddy/Assignment2>

VedioLink:<https://drive.google.com/file/d/1uveHHQfwuzqE5DlbpSp6gM5SlyUgzUff/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).

#Write function named "string\_alternative" that returns every other char in the full\_name string.



```
In [3]: #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 first name:")
#taking first name from the user
last_name=input("enter last name:")
#taking last name from the user
full_name=(first_name+' '+last_name)
#combining both first and last name
print(full_name)
# Here we print full name

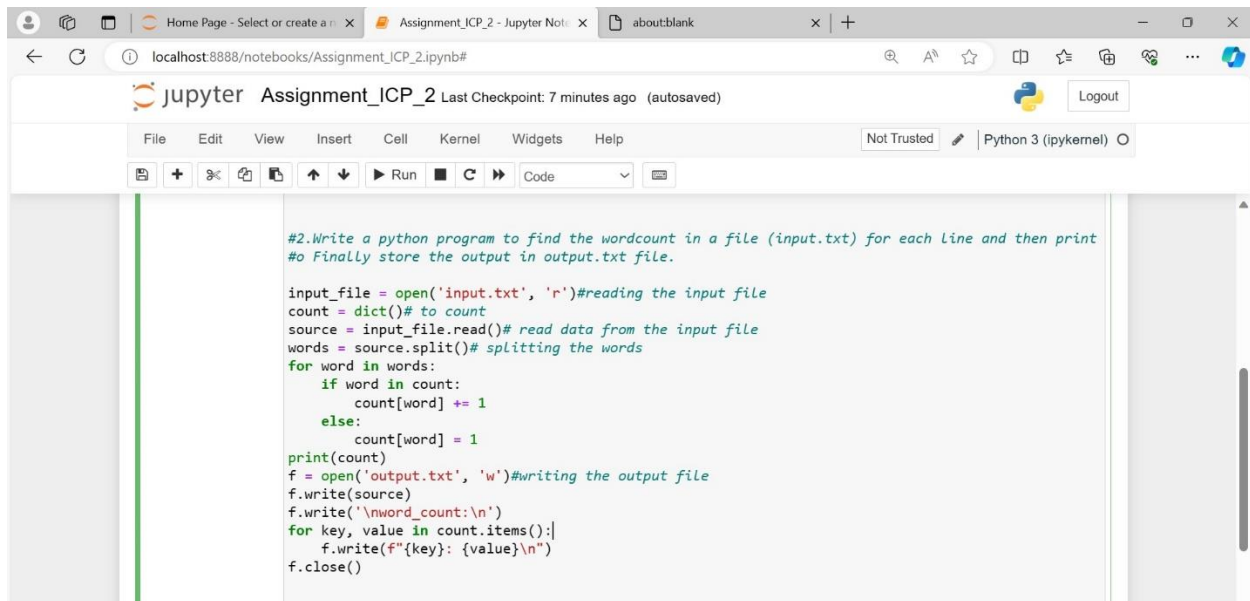
#-Write function named "string_alternative" that returns every other char in the full_name string.

def string_alternative(str):#creating a function
    result=""#taking a new string
    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#return the new string
print(string_alternative("Good Morning"))#calling the function in the main function
```

Output:

```
enter first name:Sai Sushma Sri
enter last name:Bireddy
Sai Sushma Sri Bireddy
Go onn
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```

#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.



The screenshot shows a Jupyter Notebook titled 'Assignment\_ICP\_2'. 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
# 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 in the output.txt file:

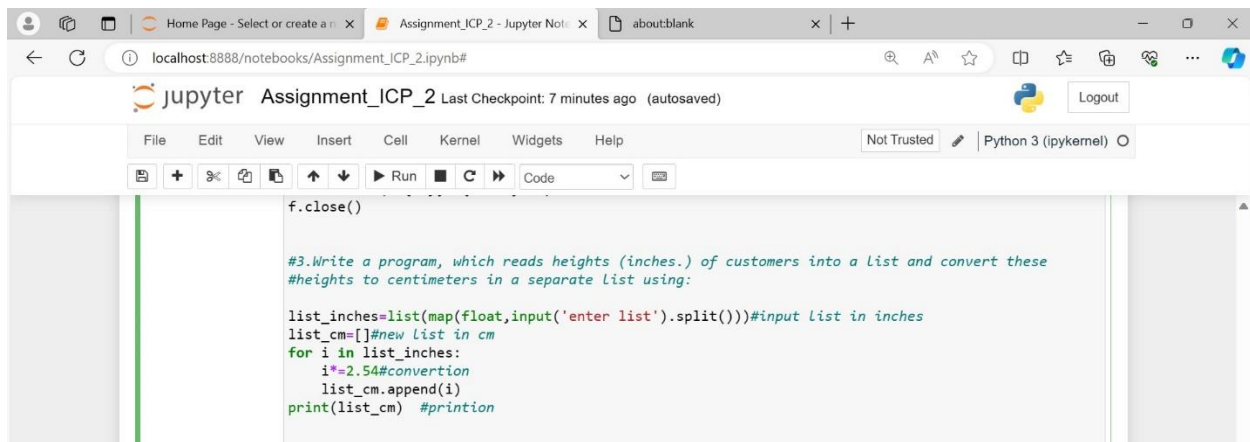
```
1 Python Course
2 Deep Learning Course
3
4 word_count:
5 Python: 1
6 Course: 2
7 Deep: 1
8 Learning: 1
```

Output:

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

enter list

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

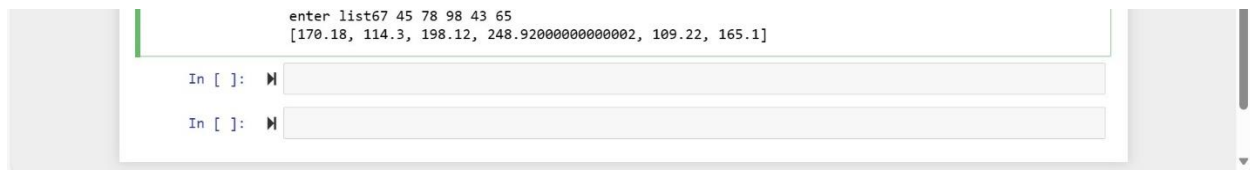


```
f.close()

#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:



```
enter list67 45 78 98 43 65
[170.18, 114.3, 198.12, 248.92000000000002, 109.22, 165.1]
```

In [ ]:

In [ ]: