Spring 2024: CS5720

Neural Networks and Deep Learning - ICP-2

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Video Link: https://drive.google.com/file/d/14FKsuliqUSz a21s0skMIGYGdU482Uqc/view? usp=drive link

Github Link: https://github.com/BalaRishik001/Neural-Networks-and-Deep-Learning-Assignments

- 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" Write function named

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

Output: Go vnn

```
[3] def Full_name(first_name="first name",last_name='last name'):# Here i have created Full name method by passing
    return first_name+' '+last_name # Here i have conacatinted both first name and last name which i have retur

first_name=input("Enter your first name:/n")# Used input function to accept a string from the user and stored i
last_name=input("Enter your last name:/n")
full_name=Full_name(first_name,last_name)#passed variables to the function
    print(full_name)

Enter your first name:/nBala Rishik
Enter your last name:/nMarneni
Bala Rishik Marneni
```

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

```
with open('input_file.txt','r') as ipf:#created a file named input_file and used
    line=ipf.read()
    word=line.split()
    with open('output_file.txt','w') as opf:
        for i in word: # Here i have iterated through word variable where the split of words are returned
        opf.write(i+':'+str(word.count(i))+'\n')
    opf=open('output_file.txt','r')
    print(opf.read())

C.* Python:1
    Course:2
    Deep:1
    Learning:1
    Course:2
```

- 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) <u>List comprehensions</u>

```
def inches_to_cm(height_in_inches):
    return height_in_inches * 2.54
num_customers = int(input("Enter the number of customers: "))
heights_in_inches = [float(height) for height in input("Enter heights in inches (comma-separated): ").split(',')]
heights_in_centimeters = []
for height in heights_in_inches:
    height_cm = inches_to_cm(height)
    heights_in_centimeters.append(height_cm)
print("Heights in centimeters:", heights_in_centimeters)

Enter the number of customers: 4
Enter heights in inches (comma-separated): 150,155,145,148
Heights in centimeters: [381.0, 393.7, 368.3, 375.92]
```

Thank You