

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

Assignment-2

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GITHUB LINK: <https://github.com/vishnutejaayyangar/ICP-2/tree/main>

Videolink https://drive.google.com/file/d/1CVcXt-jFopen5nA7yGKD6TJZw9BK1QGc/view?usp=drive_link

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”

```
[22] def Full_name(first_name="first name",last_name='last name'):# Here i have created Full name method by passing arguments first name and last name
    return first_name+' '+last_name # Here i have conacatinted both first name and last name which i have returned it as a string to the function

[22] first_name=input("Enter your first name:/n")# Used input function to accept a string from the user and stored in a variable
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:/nRAJYALAKSHMI
Enter your last name:/nGOTTIPATI
RAJYALAKSHMI GOTTIPATI
```

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

```
[18] def string_alternative(string):
    o=''
    for i in range(0,len(string)):#Here i am iterating the string from 0 to the lenght of the string
        if(i%2==0):#Here i am taking each character and doing modulus with and equating to 0 so that we can get the all the alternate characters in the string
            o=o+string[i]# Here i am adding empty string to the list of characters according the index so that we can return the string and then print
    return o
string_alternative('Good evening')#called the function by passing "Good Evening" as a string.

'Go vnn'
```

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 read and split functions to read the file and split the words into s
    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())

```

```

Python:1
Course:2
Deep:1
Learning:1
Course:2

```

. 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.

```

[20] # Nested interactive loop
      heights=[]# Empty List

      while True:
          x=float(input())
          if(x<=0):
              break
          heights.append(x)#this is in inches

```

```

6
4
3
0

```

2) List comprehensions

```

✓ [21] output=[x*2.54 for x in heights]
Os    print(output)#this is in cm

```

```

[15.24, 10.16, 7.62]

```