Neural Networks and Deep Learning - ICP-2

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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.

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Question 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).

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

In [6]: def string_alternative(var1):
    return var1[::2]
    first_name = input() #Enter the first name
    last_name = input() #Enter the last name
    full_name=(first_name + " " + last_name)
    print(full_name)# printing the full name
    string_alternative(full_name)

nirmala
    yarlagadda
    nirmala yarlagadda

Out[6]: 'nraayraad'
```

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.

Question 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.

```
In [1]: import re
         read_text = open('input.txt', 'r')
string_text = read_text.read().lower()
          pattern = re.findall(r'[a-z]{1,12}', string_text)
          for word in pattern:
             count_words = count.get(word,0)
count[word] = count_words + 1
          count_list = count.keys()
          for words in count_list:
            print(words, count[words])
          input 1
         a 1
file 1
          includes 1
          two 1
          lines 1
          python 1
          course 2
          deep 1
          learning 1
```

- 3. Write a program, which reads heights (inches.) customers into a list and convert these heights to centimeters in a separate list using:
- 1) Nested Interactive loop.
- 2) List comprehensions

Question 3

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

1) Nested Interactive loop.
2) List comprehensions

In [5]: 

print("Enter the height in inches:") heightinch_list = input() print("Nested interactive loop") heightinch_list = heightinch_list[:] cm_list1 = [] for heightl in heightinch_list1.split(','): heightl = float("(:.2f)".format(float(heightl) * 0.39)) cm_list1.append(heightl) print(cm_list1)

print("List comprehensions") heightlinch_list2 = heightlinch_list[:] cm_list2 = [float("(:.2f)".format(float(height2) * 0.39)) for height2 in heightlinch_list2.split(',')] print(cm_list2)

Enter the height in inches: 6,7,5

Nested interactive loop [2.34, 2.73, 1.95] List comprehensions [2.34, 2.73, 1.95]
```

GitHub link: https://github.com/niryarjessy22/Neural-Networks-and-Deep-Learning---ICP-2.git

Video link:

 $https://drive.google.com/file/d/14aecGgrguvHdBKpTYLyRd6xUtCniUcDe/view?usp=share_linkwitcher. The properties of the pr$