

ICP-2 Neural Networks

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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).
 - 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

Note: You need to create a function named "string_alternative" for this program and call it from main function.

CODE

```
▶ first_name = input("Enter your first name: ")
last_name = input("Enter your last name: ")
full_name = first_name + " " + last_name

alternate_chars = full_name[::2]

print("Full Name:", full_name)
print("Alternate Characters:", alternate_chars)
```

```
↳ Enter your first name: keerthi
Enter your last name: reddy
Full Name: keerthi reddy
Alternate Characters: ketirdy
```

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.

Example:

Input: a file includes two lines:

Python Course

Deep Learning Course

Output:

Python Course

Deep Learning Course Word_Count:

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

CODE

```
▶ text = open("input.txt", "r")  
d = dict()  
for line in text:  
    line = line.strip()  
    line = line.lower()  
    words = line.split(" ")  
    for word in words:  
  
        if word in d:  
  
            d[word] = d[word] + 1  
        else:  
  
            d[word] = 1  
  
for key in list(d.keys()):  
    print(key, ":", d[key])
```

```
↳ 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:
- 1) Nested Interactive loop.
 - 2) [List comprehensions](#)

Example: L1: [150,155, 145, 148]

Output: [68.03, 70.3, 65.77, 67.13]

CODE



```
lst1 = []  
n = int(input("enter number of customers: "))  
for i in range(n) :  
    height = int(input ("Enter the height of customers in inches: "))  
    lst1.append(height)  
lst1 = [height * 2.54 for height in lst1]  
print(lst1)
```

```
enter number of customers: 3  
Enter the height of customers in inches: 145  
Enter the height of customers in inches: 155  
Enter the height of customers in inches: 150  
[368.3, 393.7, 381.0]
```

