

## ICP-2 Neural Networks

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**Video link:** <https://drive.google.com/file/d/1HkYpIW-Giju3AdwTgg1SVPNdxrSvOPnb/view?usp=sharing>

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]
```

