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 = "**G**oo**d** e**v**e**n**i**n**g"
     Output: Go vnn

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

   CODE

```
#Question1
first_name= input("enter first name : ")
last_name= input("enter last name : ")

#full_name is both first name and last name
def full_name(first_name,last_name):
    return first_name +" "+last_name
#string_alternative function will prints the data alternatively
def string_alternative(full_name):
    new_str = ""
    for index in range(0,len(full_name),2):
                        new_str+=full_name[index]
    return new_str

print("User full name : ",full_name(first_name,last_name))

print("Alternate String : ",string_alternative(full_name(first_name,last_name)))
```

```
enter first name : srivalli
enter last name : donthula
User full name :  srivalli donthula
Alternate String :  sial otua
```

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

In [1]:

```
#Question3
#Read the input data of customer heights in inches
data = input("enter customer heights : ")

#convert the height of customer in inches to centimeters
def inchToCent(value):
    return value*2.54

heights = data.split()

new_list = []

for x in heights:
    value = int(x)
    new_list.append(inchToCent(value))

print("show list : ",new_list)
```

```
enter customer heights : 32
show list :  [81.28]
```