Spring 2025: Neural Networks & Deep Learning – ICP -1

Assignment -1

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Github Link: https://github.com/maniallada9/Neural-Networks-deep-Learning

Video Link:

https://drive.google.com/file/d/13ZfSG03V68urS2LqzYNM82jW8ocimckT/view?usp=drivesdk

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).

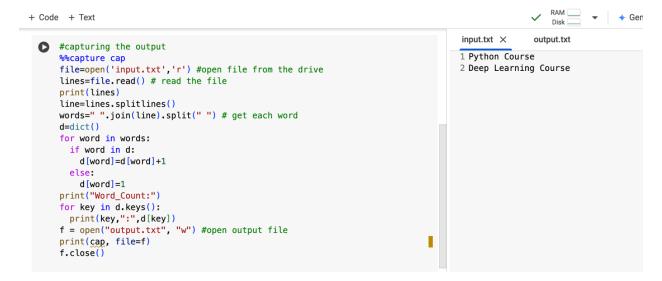
```
+ Code + Text
 #function for printing alternative characters
     def string_alternative(full_name):
       str=""
       for i in range(0,len(full_name)):
           str+=full_name[i] # adding each alternate character
       print(str)
       #function for fullname
     def fullname(fn,ln):
       Full_name=fn+" "+ln #concatinating both firstname and lastname
        return Full name
     First_name=input("First name") #input first name
     last_name=input("last name") #input last name
     Full_name=fullname(First_name, last_name) # calling Full_name function
     print(Full_name)
     string_alternative(Full_name) # calling string_alternative function
```

Output:

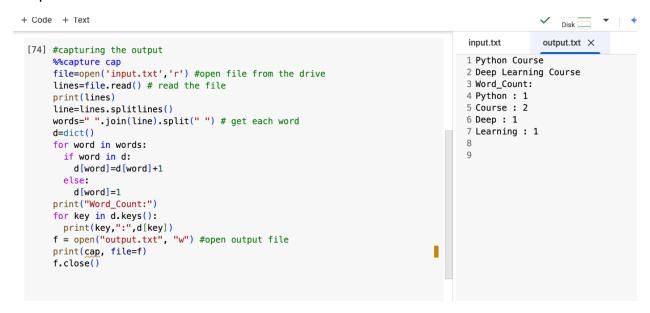
```
Full_name=fn+" "+ln #concatinating both firstname and lastname
  return Full_name
First_name=input("First name") #input first name
last_name=input("last name") #input last name
Full_name=fullname(First_name, last_name) # calling Full_name function
print(Full_name)
string_alternative(Full_name) # calling string_alternative function
```

```
First namemani
last nameallada
mani allada
mn laa
```

2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output.



Output:



- 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

```
+ Code + Text
 li=[150,155,145,148]
      n=int(input("enter no of samples")) # enter number of readings
      inches=[]
      cms=[]
      for i in range(n):
        height=float(input("enter height in inches"))
        inches.append(height)
      print("nested Interactive loop") # for interactive loops
      for i in inches:
        cms=cms+[i*2.54]
      print(cms)
      #list comprehension
      print("list comprehensions1")
      k=[i*2.54 for i in inches] # for list comprehensions
      print(k)
```

Output:

```
inches.append(height)
    print("nested Interactive loop") # for interactive loops
    for i in inches:
      cms=cms+[i*2.54]
    print(cms)
    #list comprehension
    print("list comprehensions1")
    k=[i*2.54 for i in inches] # for list comprehensions
    print(k)
→ enter no of samples2
    enter height in inches12
    enter height in inches23
    nested Interactive loop
    [30.48, 58.42]
    list comprehensions1
    [30.48, 58.42]
```