Humani Korem

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NEURAL NETWORK AND DEEP LEARNING ASSIGNMENT-2

GITHUB LINK: - https://github.com/Humanikorem/NeuralAssignment2.git

RECORDINGLINK:
https://github.com/Humanikorem/NeuralAssignment2/assets/156602415/279971db-558e-4529-9bc9-d5c1d9597e71

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)**

a) **For example: ▪ First_name = "your first name", last_name = "your last name" ▪ Full_name = "your full name"**

```
[5]
def fullname(first_name,last_name):
    return first_name + " " + last_name
first_name="Humani"
last_name="Korem"
print("Full Name:",fullname(first_name,last_name))
```
✓ 0.0s

Output: -

```
Full Name: Humani Korem
```

b) **Write function named "string_alternative" that returns every other char in the full_name string. Str = "Good evening" Output: Go vnn**

```
def str_alternative(Str):
    return Str[::2]
print(str_alternative("Good evening"))
```

Output: -

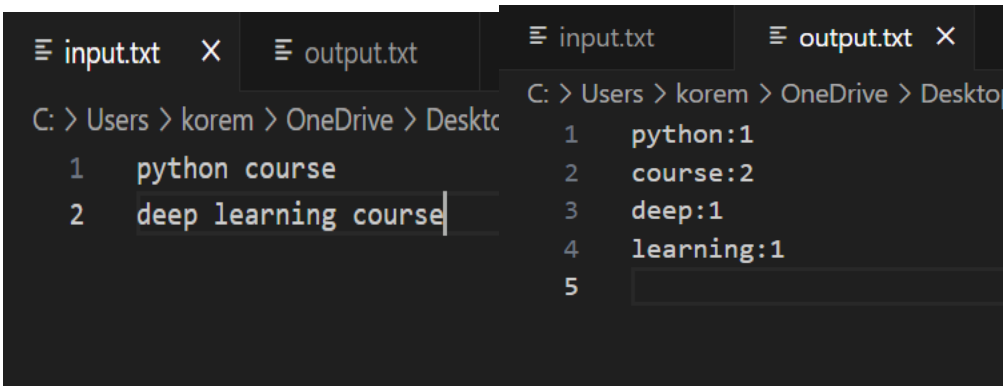
```
Go vnn
```

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.**

```
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
file1 = open('output.txt', 'w')
s=""
for key in list(d.keys()):
    s += key+ ":" + str(d[key])+ "\n"
file1.write(s)
file1.close()
```

[3] ✓ 0.0s

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

a) **Nested Interactive loop**

```
heights = [150, 155, 145, 148]
centimeters = []

for height in heights:
    cm = height * 2.54
    centimeters.append(cm)

print("Heights in inches:", heights)
print("Heigths in centimeters:", centimeters)
```

[4] ✓ 0.0s

Output: -

```
Heights in inches: [150, 155, 145, 148]
Heigths in centimeters: [381.0, 393.7, 368.3, 375.92]
```

b) List comprehensions

```
heights = [150,155,145,148] # sample list of heights in inches
centimeters = [round(height * 2.54, 2) for height in heights] # convert each heught in inches to centimeters
print("Heights in inches:", heights)
print("Heights in centimeters:", centimeters)
```

[7] ✓ 0.0s

Output: -

```
Heights in inches: [150, 155, 145, 148]
Heights in centimeters: [381.0, 393.7, 368.3, 375.92]
```