Git Hub Link: https://github.com/srija1609/NNDL-ICP-2

Spring 2024: CS5720

Neural Networks & Deep Learning - ICP-2

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

CODE:

```
[1]  First_name = ( input("Your First Name : "))
     last_name = (input("Your Last Name : "))
     Full_Name = print(First_name + last_name)
```

```
Your First Name : Baby
Your Last Name : Srija
BabySrija
```

o Write function named "string_alternative" that returns every other char in the full_name string. Str = "Good evening"

Output: Go vnn

CODE:

```
def string_alternative(Str):
    output = ""
    for a in range(len(Str)):
        if a % 2 == 0:
            output += Str[a]
    return output
print(string_alternative("Good evening"))
```

```
Go vnn
```

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

CODE:

```
file1 = open('/content/input.txt.txt', 'r')
counts = dict()
data = file1.read()
words = data.split()
for word in words:
    if word in counts:
        counts[word] += 1
    else:
        counts[word] = 1
print(counts)


f = open('output.txt', 'w')
f.write(data)
f.write('\nword_count:\n')
for key, value in counts.items():
    f.write(f"{key}: {value}\n")
f.close()
```

```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```

output.txt

```
Python Course
Deep Learning Course
word_count:
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**

CODE:

```
L1=list(map(float,input().split()))
L2=[]
for x in L1:
    x=x*2.54
    L2.append(x)
print(L2)
```

```
150
[381.0]
```

```
[10] L1=list(map(float,input().split()))
     L2=[x*2.54 for x in L1]
     print(L2)
```

```
150 155 145 148
[381.0, 393.7, 368.3, 375.92]
```