

Summer 2024: CS5720

Neural Networks & Deep Learning

ICP-2

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GitHub Link: <https://github.com/SnehanReddy2320/NNassignment2.git>

1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to the 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”

```
first_name = (input("Your first name"))
last_name = (input("your last name "))
full_name = print(first_name + last_name)
```

Your first nameSnehan reddy
your last name Marri
Snehan reddyMarri

- b. Write a function named “string_alternative” that returns every other char in the full_name string. Str = “Good evening”

Output: Go vnn

```
def string_alternative(full_name):
    return full_name[::2]
result = string_alternative("Good evening")
print(result)
```

Go vnn

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

```
file1 = open('/content/input.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 ×

```
1 Python Course
2 Deep Learning Course
3 word_count:
4 Python: 1
5 Course: 2
6 Deep: 1
7 Learning: 1
8
```

input.txt ×

```
1 Python Course
2 Deep Learning Course
```

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

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

150
[381.0]

```
[12] 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]