

# Neural Networks & Deep Learning Assignment-2

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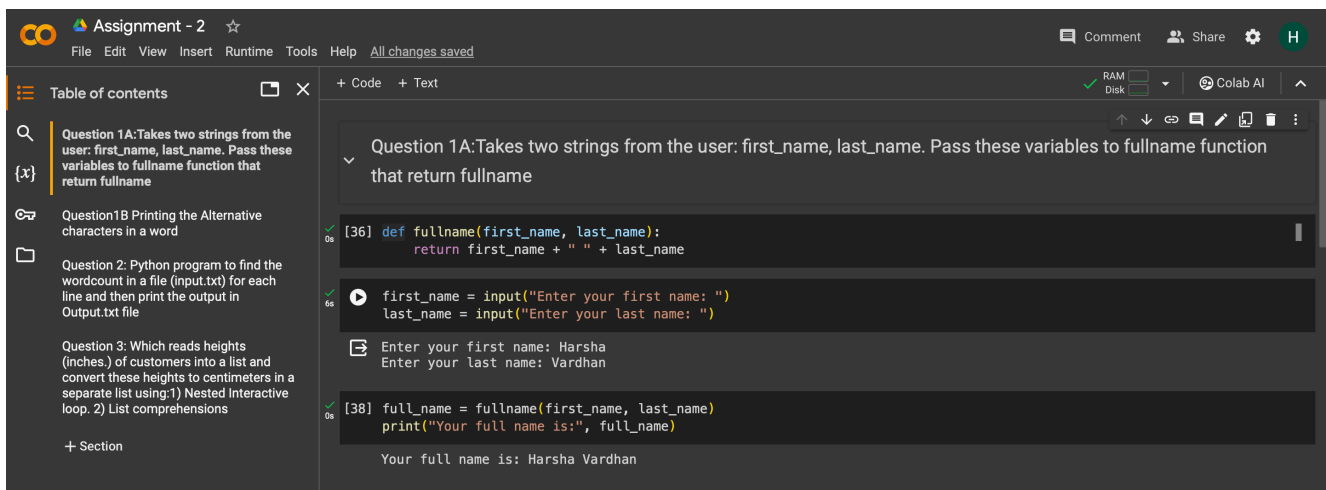
Repository Link :

<https://github.com/harshavardhanreddy27/Neural-Networks-Assignment---2>

Video Link:

[https://drive.google.com/file/d/1dCcL48Ytzz58vt5CcqbW2ZZEoVZhpcv2/view?usp=share\\_link](https://drive.google.com/file/d/1dCcL48Ytzz58vt5CcqbW2ZZEoVZhpcv2/view?usp=share_link)

Code Screenshots: Question:1A

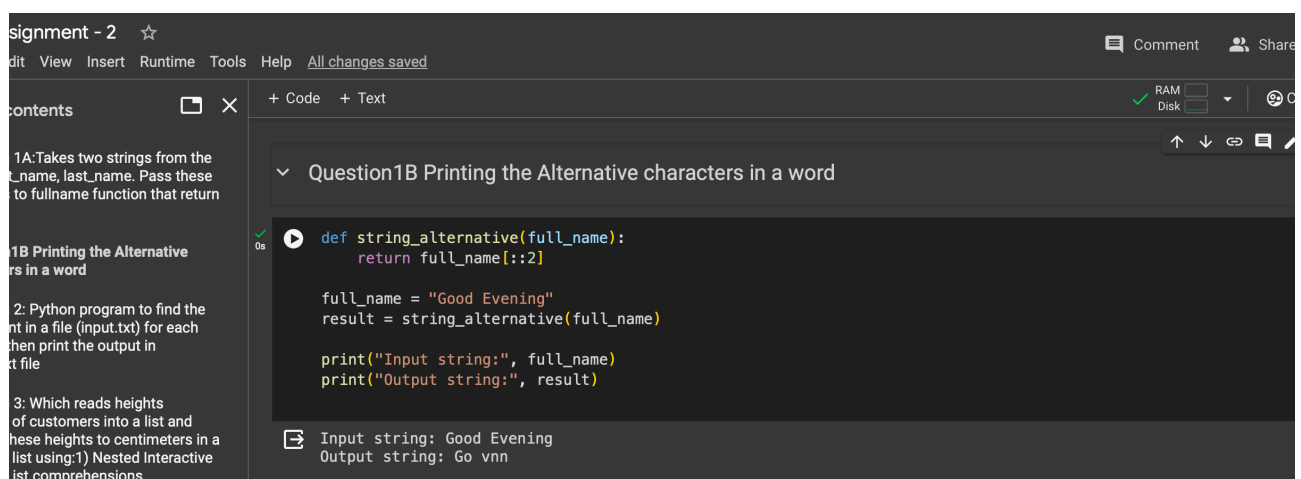


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Assignment - 2 ☆
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Question 1A:Takes two strings from the user: first_name, last_name. Pass these variables to fullname function that return fullname
Question1B Printing the Alternative characters in a word
Question 2: Python program to find the wordcount in a file (input.txt) for each line and then print the output in Output.txt file
Question 3: 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
+ Section

+ Code + Text
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Question 1A:Takes two strings from the user: first_name, last_name. Pass these variables to fullname function that return fullname
[36] def fullname(first_name, last_name):
    return first_name + " " + last_name
first_name = input("Enter your first name: ")
last_name = input("Enter your last name: ")
Enter your first name: Harsha
Enter your last name: Vardhan
[38] full_name = fullname(first_name, last_name)
print("Your full name is:", full_name)
Your full name is: Harsha Vardhan
```

Question 1B:-



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Assignment - 2 ☆
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Question1B Printing the Alternative characters in a word
def string_alternative(full_name):
    return full_name[::2]
full_name = "Good Evening"
result = string_alternative(full_name)
print("Input string:", full_name)
print("Output string:", result)
Input string: Good Evening
Output string: Go vnn
```

Question 2:-

Assignment - 2

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Question 1A: Takes two strings from the user: first\_name, last\_name. Pass these variables to fullname function that return fullname

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Question 2: Python program to find the wordcount in a file (input.txt) for each line and then print the output in Output.txt file

+ Code + Text

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[15] number_of_words = 0
with open('input.txt', 'r') as file:
    content = file.read()
    print(content)

```

Neural Networks

Deep learning

```

[31] number_of_words = 0
word_count = {}

with open('input.txt', 'r') as file:
    content = file.read()
    words = content.split()

    for word in words:
        word = word.strip().lower()
        word_count[word] = word_count.get(word, 0) + 1
        number_of_words += 1

print(f"Total Number of Words: {number_of_words}")

for word, count in word_count.items():
    print(f'{word}: {count}')

```

Total Number of Words: 4

neural: 1

networks: 1

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## Question 3:-

Assignment - 2

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Question 1A: Takes two strings from the user: first\_name, last\_name. Pass these variables to fullname function that return fullname

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+ Code + Text

```

[15] Neural Networks
Deep learning

number_of_words = 0
word_count = {}

with open('input.txt', 'r') as file:
    content = file.read()
    words = content.split()

    for word in words:
        word = word.strip().lower()
        word_count[word] = word_count.get(word, 0) + 1
        number_of_words += 1

print(f"Total Number of Words: {number_of_words}")

for word, count in word_count.items():
    print(f'{word}: {count}')

```

Total Number of Words: 4

neural: 1

networks: 1

deep: 1

learning: 1

```

[22] with open('output.txt', 'w') as output_file:
    print(f"Total Number of Words: {number_of_words}", file=output_file)

    for word, count in word_count.items():
        print(f'{word}: {count}', file=output_file)

```

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Assignment - 2

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Question 1A:Takes two strings from the user: first\_name, last\_name. Pass these variables to fullname function that return fullname

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+ Section

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[32]

heights\_cm\_nested = convert\_to\_cm\_nested(heights\_inches)

heights\_cm\_list\_comp = convert\_to\_cm\_list\_comprehension(heights\_inches)

print("\nHeights in Inches:", heights\_inches)

print("Heights in Centimeters (Using Nested Loop):", heights\_cm\_nested)

print("Heights in Centimeters (Using List Comprehension):", heights\_cm\_list\_comp)

if \_\_name\_\_ == "\_\_main\_\_":

main()

Enter heights in inches separated by commas: 143,123

Heights in Inches: [143.0, 123.0]

Heights in Centimeters (Using Nested Loop): [363.22, 312.42]

Heights in Centimeters (Using List Comprehension): [363.22, 312.42]

[ ] Start coding or generate with AI.

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