ASSIGNMENT-2

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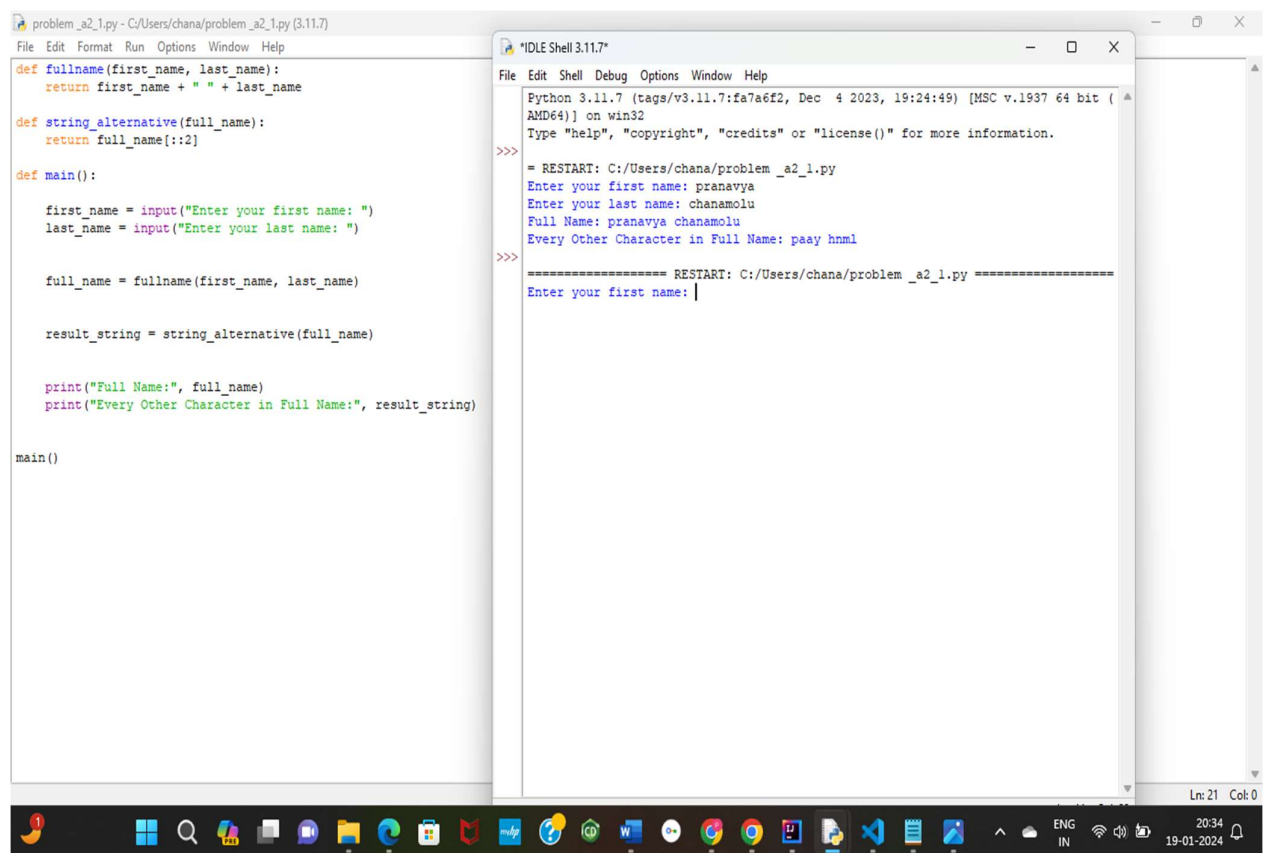
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NEURAL NETWORKS & DEEP LEARNING

Github link: https://github.com/pxc99740/neural_networks-deep_learning_assignment2.git

Video link:

https://drive.google.com/drive/folders/1Xufi_oNVxlsB_48yxcld279ok4eCyTcs

Screenshots:

```python
with open('input.txt', 'r') as file:
    lines = file.readlines()


word_counts = {}
for line in lines:
    words = line.split()
    for word in words:
        word_counts[word] = word_counts.get(word, 0) + 1

print("Input:")
for line in lines:
    print(line.strip())


print("Word_Count:")
for word, count in word_counts.items():
    print(f"{word}: {count}")


with open('output.txt', 'w') as output_file:

    output_file.write("Input:\n")
    for line in lines:
        output_file.write(line)


    output_file.write("\nWord_Count:\n")
    for word, count in word_counts.items():
        output_file.write(f"{word}: {count}\n")
```

IDLE Shell 3.11.7

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```
Python 3.11.7 (tags/v3.11.7:fa7a6f2, Dec  4 2023, 19:24:49) [MSC v.1937 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/chana/problem_a2_21.py
Input:
Python Course
Deep Learning Course
Word_Count:
Python: 1
Course: 2
Deep: 1
Learning: 1
>>>
```

```python
heights_inches = []
heights_centimeters_nested = []

num_customers = int(input("Enter the number of customers: "))

for i in range(num_customers):
    height_inches = float(input(f"Enter height in inches for customer {i+1}: "))
    heights_inches.append(height_inches)
    height_centimeters = height_inches * 2.54
    heights_centimeters_nested.append(round(height_centimeters, 2))

print("Heights in Inches:", heights_inches)
print("Heights in Centimeters (Nested Loop):", heights_centimeters_nested)


heights_inches = [float(input(f"Enter height in inches for customer {i+1}: ")) for i in range(num_customers)]
heights_centimeters_comprehension = [round(height * 2.54, 2) for height in heights_inches]

print("Heights in Inches:", heights_inches)
print("Heights in Centimeters (List Comprehension):", heights_centimeters_comprehension)
```

IDLE Shell 3.11.7

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```
Python 3.11.7 (tags/v3.11.7:fa7a6f2, Dec  4 2023, 19:24:49) [MSC v.1937 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/chana/problem_a2_3.py
Enter the number of customers: 3
Enter height in inches for customer 1: 4
Enter height in inches for customer 2: 5
Enter height in inches for customer 3: 6
Heights in Inches: [4.0, 5.0, 6.0]
Heights in Centimeters (Nested Loop): [10.16, 12.7, 15.24]
Enter height in inches for customer 1: 4
Enter height in inches for customer 2: 6
Enter height in inches for customer 3: 6
Heights in Inches: [4.0, 6.0, 6.0]
Heights in Centimeters (List Comprehension): [10.16, 15.24, 15.24]
>>>
```

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