Name: Prashanth Reddy Koppula

700# : 700761149

Google Drive Link:

https://drive.google.com/file/d/1dMFZulOZGNvf5vggsKv2QzzK0BudRPp9/view?usp=drive link

Github Link: https://github.com/Nagi-131/700761149-ICP1

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).

o For example: • First_name = "your first name", last_name = "your last name" • Full name = "your full name"

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

Note: You need to create a function named "string_alternative" for this program and call it from main function.

Ans:

```
def main():
    first_name = input("Enter your first name: ")
    last_name = input("Enter your last name: ")
    full_name = f"{first_name} {last_name}"
    print(f"Full name: {full_name}")
    alternative_str = full_name[::2]
    print(f"String with every other character: {alternative_str}")

if __name__ == "__main__":
    main()

Enter your first name: PRASHANTH
    Enter your last name: ROPPULA
    Full name: PRASHANTH KOPPULA
    String with every other character: PAHNHKPUA
```

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.

Example: Input: a file includes two lines:

Python Course Deep Learning Course

Output: Python Course Deep Learning Course

Word_Count: Python: 1

Course: 2 Deep: 1 Learning: 1

Ans:

```
↑ ↓ ⊖ 🗏 💠 🖫 🖽 :
import string
from google.colab import drive
def count_words(line):
    words = line.strip().split()
for word in words:
         word = word.strip(string.punctuation)
input_file = "/content/gdrive/My Drive/input.txt"
output_file = "/content/gdrive/My Drive/output.txt"
         lines = f.readlines()
     with open(output_file, 'w') as f_out:
             print(line.strip())
print(line.strip(), file=f_out)
         print("Word_Count:")
print("Word_Count:", file=f_out)
           for line in lines:
return word_count
input_file = "/content/gdrive/My Drive/input.txt"
output_file = "/content/gdrive/My Drive/output.txt"
                                                                                                                                                                                               ↑ ↓ ⊖ 🗏 🌣 🗓 🔟 :
    with open(input_file, 'r') as f:
    lines = f.readlines()
with open(output_file, 'w') as f_out:
           for line in lines:
          print("Word_Count:")
print("Word_Count:", file=f_out)
for line in lines:
                word_count = count_words(line)
            print(f"{word}: {count}")
print(f"{word}: {count}", file=f_out)
except FileNotFoundError:
    print(f"Error: File '{input_file}' not found.")
Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mount("/content/gdrive", force_remount=True).
Python Course
Deep Learning Course
Word Count:
```

- 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

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

Output: [68.03, 70.3, 65.77, 67.13]

Ans:

```
inches = list(map(int, input().split(" ")))

cmList = []

cm_comprehensions = []

# Nested loop method
for each in inches :

cm = 2.54 * each

cmList.append(cm)

print ("Height in cm - Nested Interactive loop method \n", cmList)

# List Comprehension method
cm_comprehensions = [(height * 2.54) for height in inches]

print ("Height in cm - List Comprehension method \n", cm_comprehensions)

3- 150 155 145 148

Height in cm - Nested Interactive loop method
[381.8, 393.7, 368.3, 375.92]

Height in cm - Nested Interactive loop method
[381.8, 393.7, 368.3, 375.92]
```