ICP2

GITHUB LINK: https://github.com/venujala/700766038

- 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"
 - $\begin{tabular}{ll} \hline & Full_name = "your full name" \circ Write function named "string_alternative" that returns every other char in the full_name string. Str = "Good evening" \\ \hline \end{tabular}$

Output: Go vnn

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

```
✓ RAM → Gemini ∧
      + Code + Text
         def fullname(first_name, last_name):
    full_name = first_name + " " + last_name
Q
                   return full_name
{x}
              def string_alternative(full_name):
                   # Extract every other character starting from index 0 alternate_chars = full_name[::2]
☞
                    return alternate_chars
# Main program
               if __name__ == "__main__":
    # Input from user
                    first_name = input("Enter your first name: ")
                    last_name = input("Enter your last name: ")
                    # Get the full name
                    full_name = fullname(first_name, last_name)
                   print("Full Name:", full_name)
                    # Get every other character in the full name
                   alternate_string = string_alternative(full_name)
print("Alternate characters:", alternate_string)
<>
         Enter your first name: Good
Enter your last name: Evening
Full Name: Good Evening
\equiv
               Alternate characters: 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. Example:

Input: a file includes two lines:

Python Course

Deep Learning Course

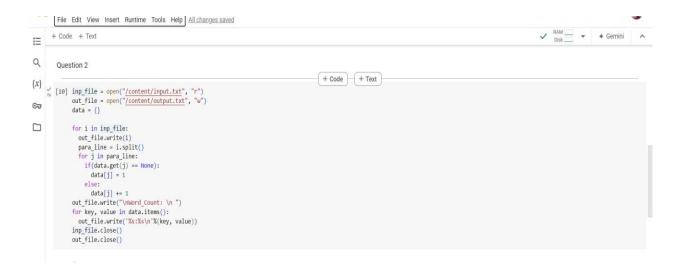
Output:

Python Course

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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) <u>List comprehensions</u>

Example: L1: [150,155, 145, 148] Output: [68.03, 70.3, 65.77, 67.13]

```
+ Code + Text
                                                                                                                                                                                ✓ RAM → ← Gemini ∧
        Question 3
                                                                                                    + Code + Text
{X}  / [13] def InchtoCentimeters(value):
                return value*2.54
07
              cust_heights = []
              centi_heights = []
listelements = int(input('Enter number of elements in the list: '))
for i in range(listelements):
               element = int(input('Enter the height: '))
               cust_heights.append(element)
              for ele in cust_heights:
               value = int(ele)
               centi_heights.append(InchtoCentimeters(value))
              print("Heights in centimeter: ", centi_heights)
        Enter number of elements in the list: 4
Enter the height: 150
Enter the height: 155
             Enter the height: 145
Enter the height: 148
Heights in centimeter: [381.0, 393.7, 368.3, 375.92]
```