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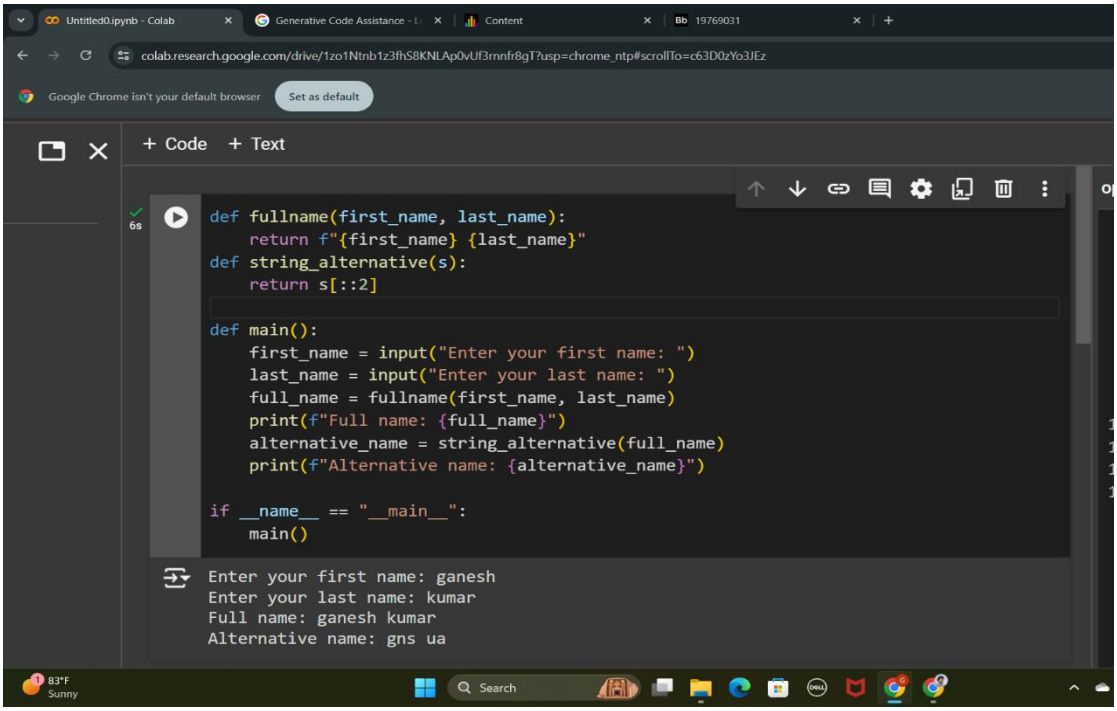
NEURAL NETWORKS ASSIGNMENT -2

GITHUB: [GaneshKumarKorra/ICP2 (github.com)]

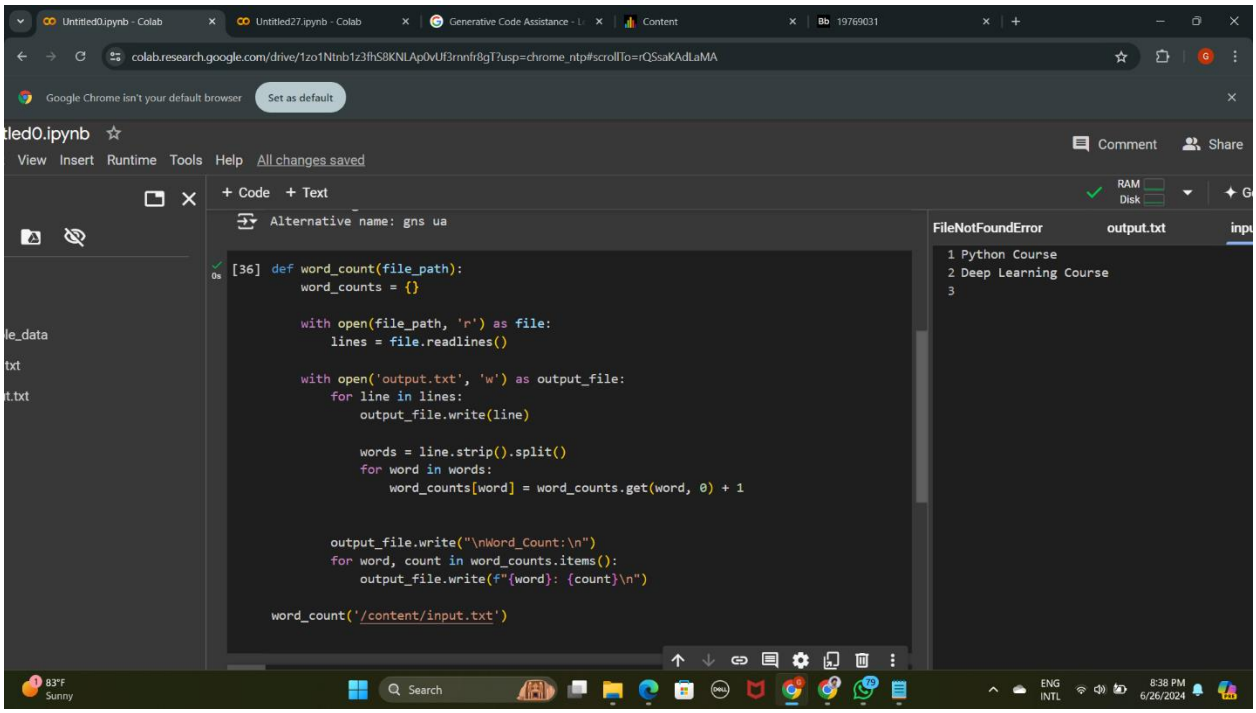
1ST CODE



DESCRIPTION:

The provided Python script includes two main functions: fullname, which combines a first name and last name into a full name, and string_alternative, which returns every second character of a given string. The main function prompts the user for their first and last names, generates the full name using fullname, and prints it. It then generates an alternative version of the full name using string_alternative and prints this as well. The script ensures that main runs only when the script is executed directly, not when imported as a module. This concise program demonstrates basic string manipulation and user interaction in Python.

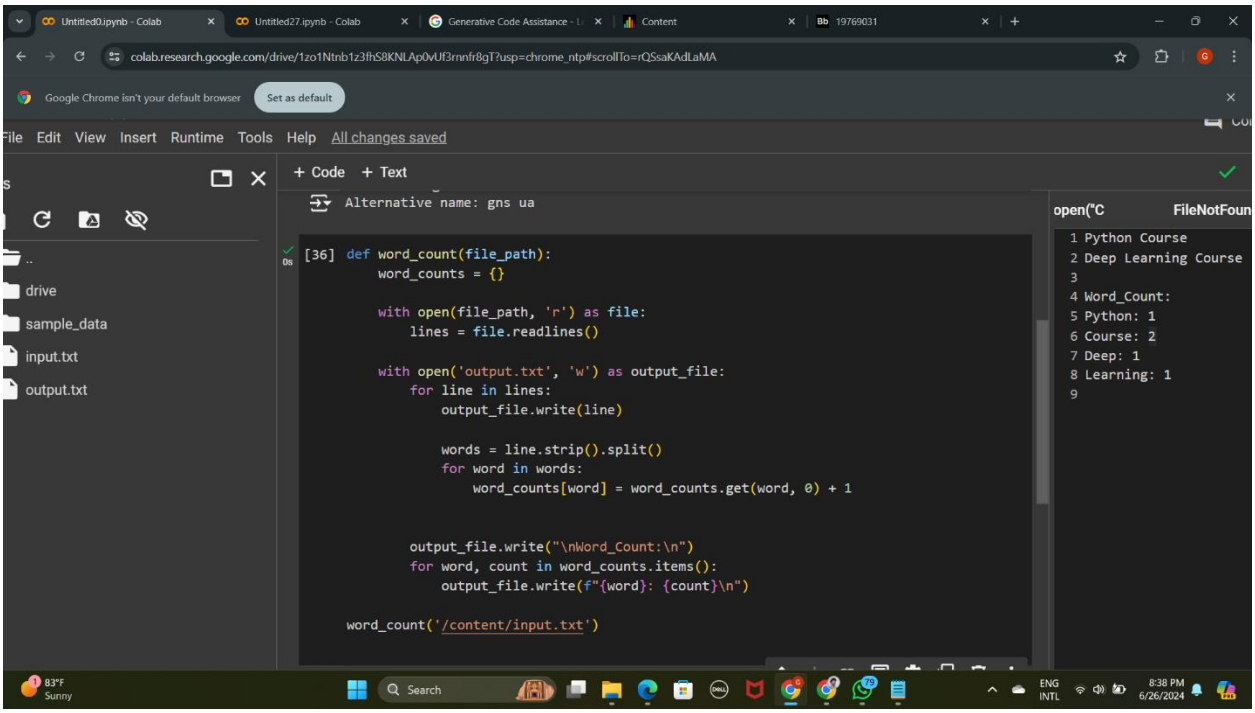
2ND CODE INPUT



DESCRIPTION:

The word_count Python script reads a text file, counts the occurrences of each word, and writes the results to an output file. It initializes a dictionary to store word counts, reads lines from the input file, and writes these lines to output.txt. For each line, the script splits it into words, updates the word counts in the dictionary, and finally writes the word counts to the output file in a formatted manner. The script is executed by calling the word_count function with the path to the input file.

2ND CODE OUTPUT



3RD CODE

```
def convert_to_cm(heights_inches):
    heights_cm = []
    for height in heights_inches:
        cm = height * 2.54
        heights_cm.append(round(cm, 2))
    return heights_cm

input_str = input("Enter heights in inches separated by spaces: ")
heights_inches = list(map(int, input_str.split()))
heights_cm = convert_to_cm(heights_inches)
print("L1:", heights_inches)
print("Output:", heights_cm)
```

```
Enter heights in inches separated by spaces: 155 150 145 148
L1: [155, 150, 145, 148]
Output: [393.7, 381.0, 368.3, 375.92]
```

DESCRIPTION:

The provided Python script defines a function, convert_to_cm, which converts a list of heights from inches to centimeters by multiplying each height by 2.54 and rounding the result to two decimal places. The script then prompts the user to input heights in inches as a space-separated string, converts this input into a list of integers, and uses the convert_to_cm function to generate the corresponding heights in centimeters. Finally, it prints the original heights in inches and the converted heights in centimeters. This program effectively demonstrates basic list manipulation, user input handling, and unit conversion in Python.