Neural Network Deep Learning

Assignment – 1

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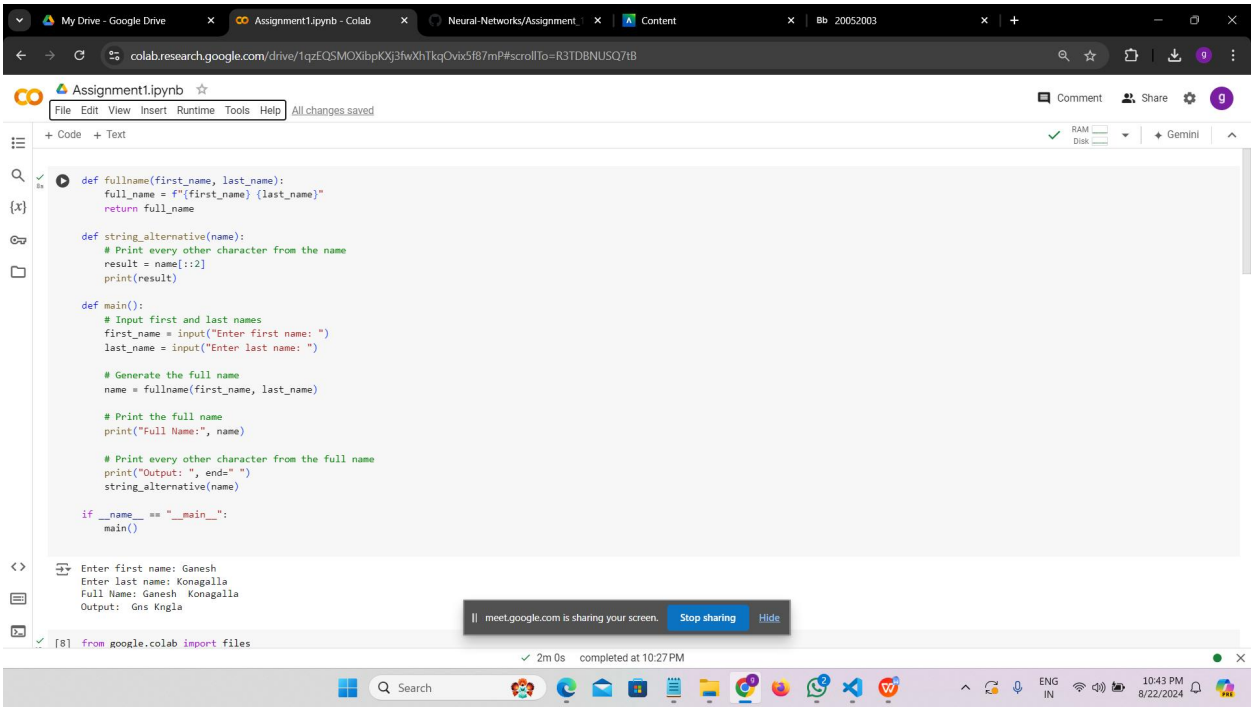
Github Link :https://github.com/ganeshkonagalla123/Neural-Networks/tree/main/Assignment_1

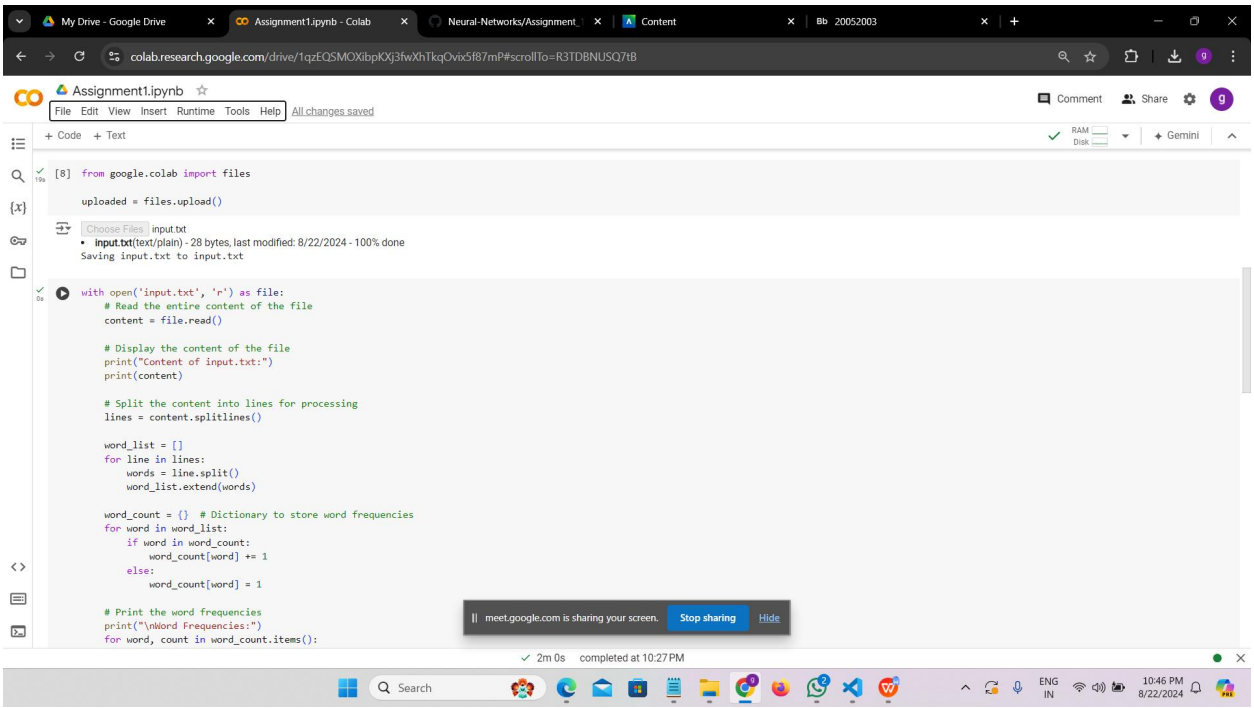
1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname function that should return the (full name).
   o For example: ▪ First_name = “your first name”, last_name = “your last name” ▪ Full_name = “your full name”

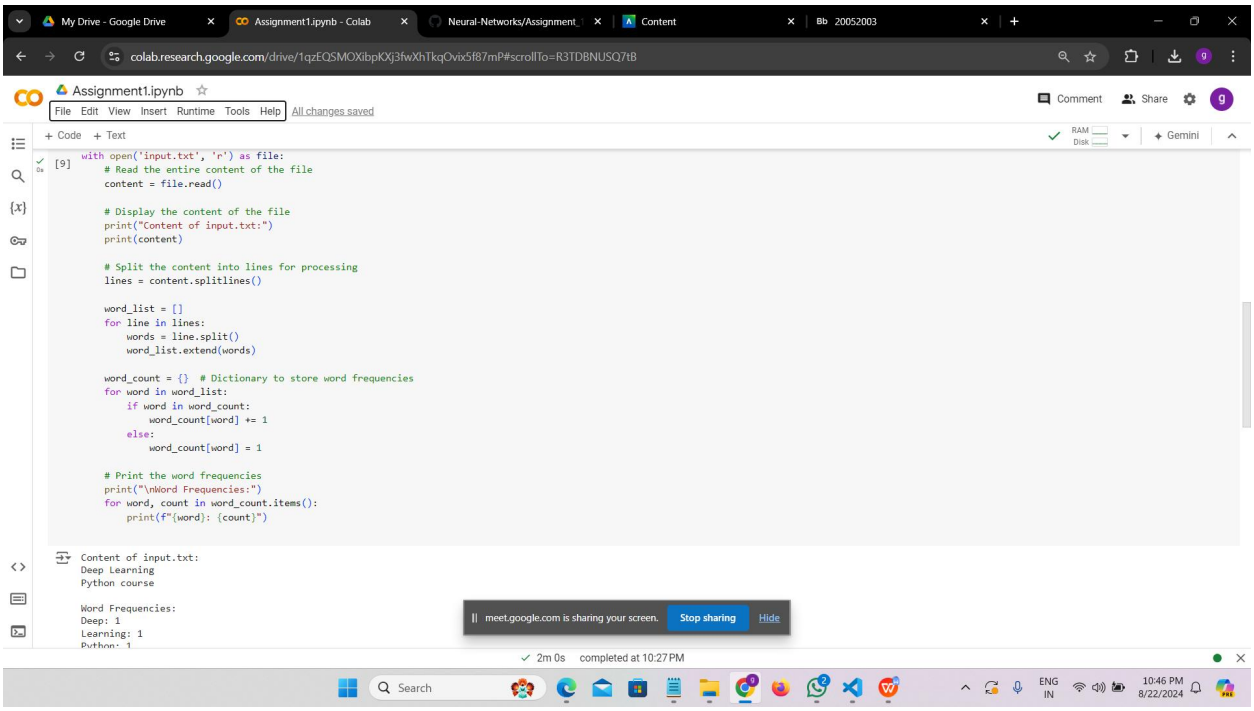
Note: You need to create a function named “string_alternative” for this program and call it from main function.



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

In the below Code snippet, we are replacing python with pythons

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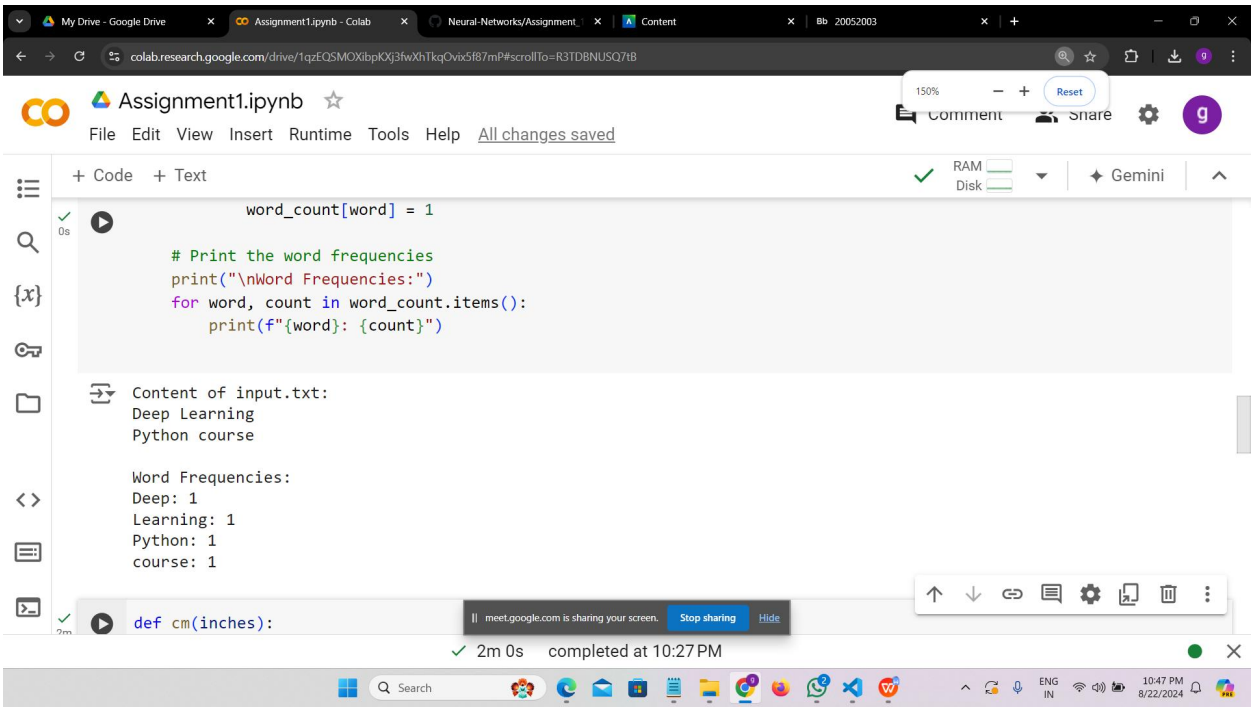
[9]
with open('input.txt', 'r') as file:
# Read the entire content of the file
content = file.read()
# Display the content of the file
print("Content of input.txt:")
print(content)
# Split the content into lines for processing
lines = content.splitlines()
word_list = []
for line in lines:
words = line.split()
word_list.extend(words)
word_count = {} # Dictionary to store word frequencies
for word in word_list:
if word in word_count:
word_count[word] += 1
else:
word_count[word] = 1
# Print the word frequencies
print("\nWord Frequencies:")
for word, count in word_count.items():
print(f"{word}: {count}")
Content of input.txt:
Deep Learning
Python course
Word Frequencies:
Deep: 1
Learning: 1
Python: 1
meet.google.com is sharing your screen.
Stop sharing
Hide
2m 0s completed at 10:27 PM
Search
ENG
IN
10:46 PM
8/22/2024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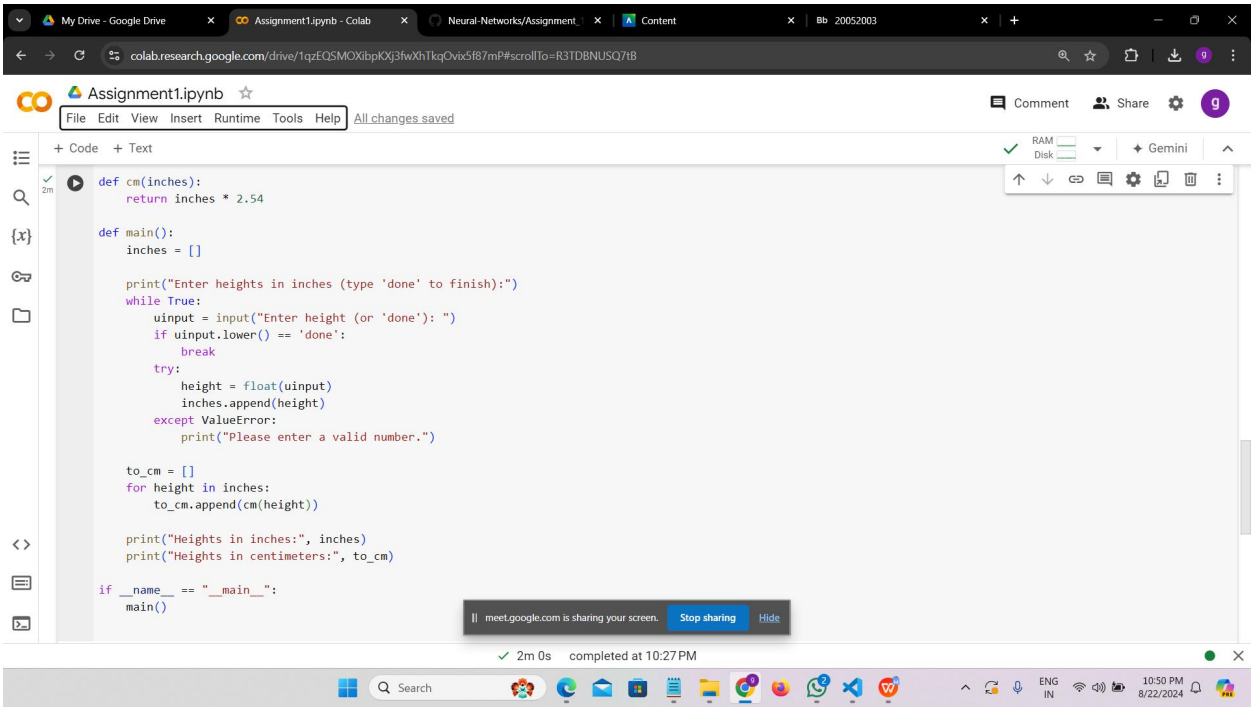
word_count[word] = 1
# Print the word frequencies
print("\nWord Frequencies:")
for word, count in word_count.items():
print(f"{word}: {count}")
Content of input.txt:
Deep Learning
Python course
Word Frequencies:
Deep: 1
Learning: 1
Python: 1
course: 1
def cm(inches):
meet.google.com is sharing your screen.
Stop sharing
Hide
2m 0s completed at 10:27 PM
Search
ENG
IN
10:47 PM
8/22/2024

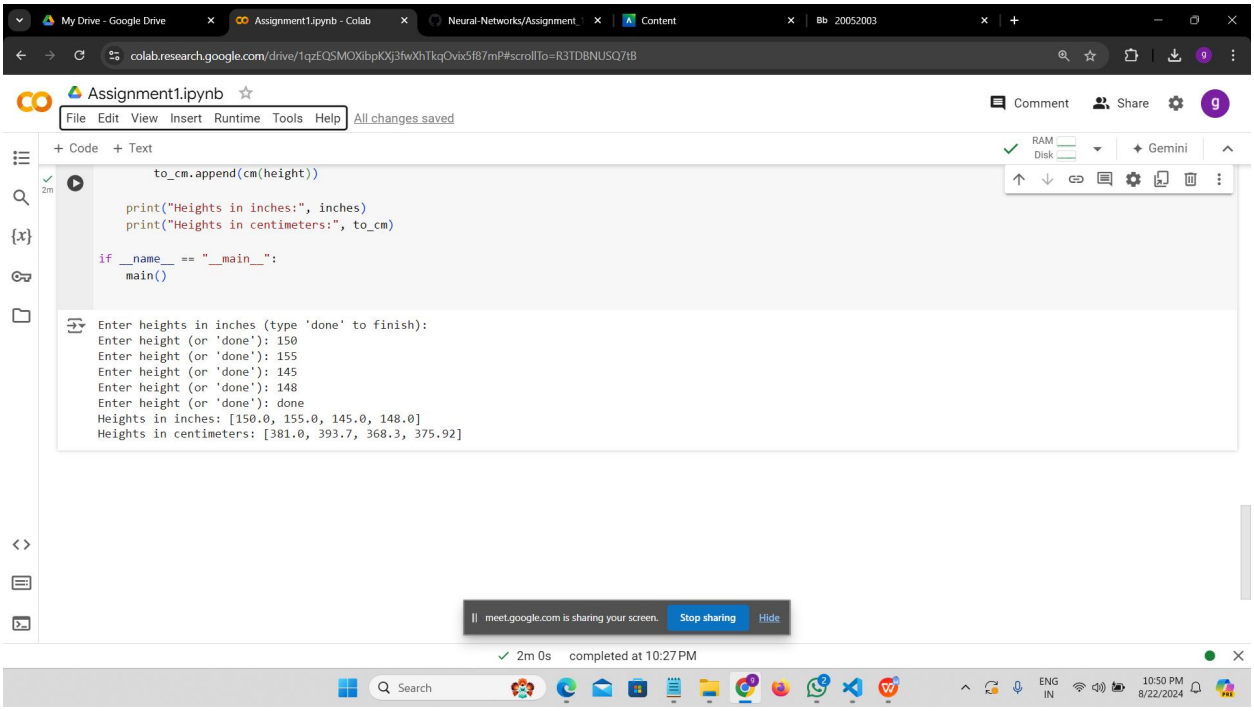
3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using: 1) Nested Interactive loop. 2) List comprehensions

In the below Code snippet, we are calculating the height of the customer into centimeters using two approaches.

Nested Interactive Loop:



Output: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to_cm.append(cm(height))
print("Heights in inches:", inches)
print("Heights in centimeters:", to_cm)
if __name__ == "__main__":
main()
Enter heights in inches (type 'done' to finish):
Enter height (or 'done'): 150
Enter height (or 'done'): 155
Enter height (or 'done'): 145
Enter height (or 'done'): 148
Enter height (or 'done'): done
Heights in inches: [150.0, 155.0, 145.0, 148.0]
Heights in centimeters: [381.0, 393.7, 368.3, 375.92]
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Stop sharing
Hide
2m 0s completed at 10:27 PM