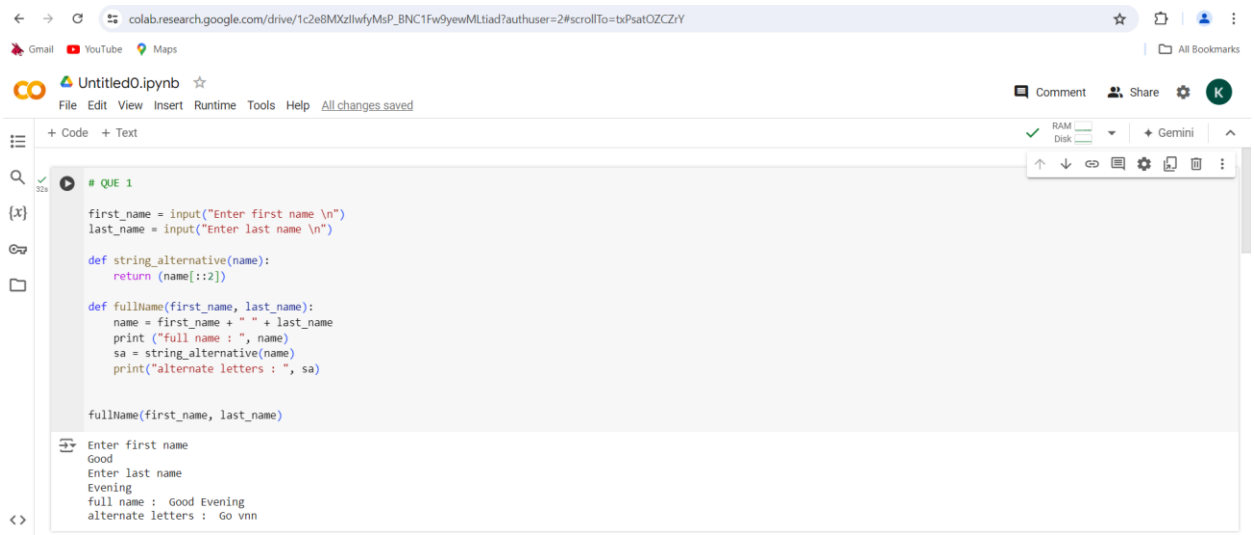
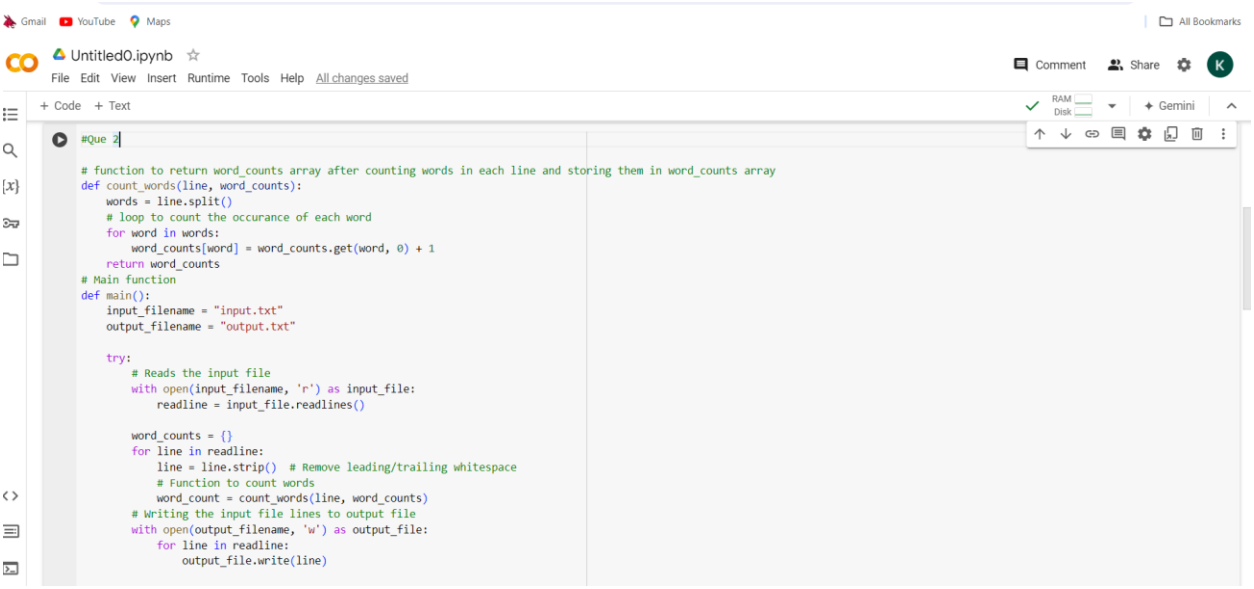
NNDL ASSIGNMENT-2

Video Link:
https://drive.google.com/file/d/1i6eBTfRCW7xq9W3AJeun0dThQK26gaT2/view?usp=sharing

Question 1:



Question 2:

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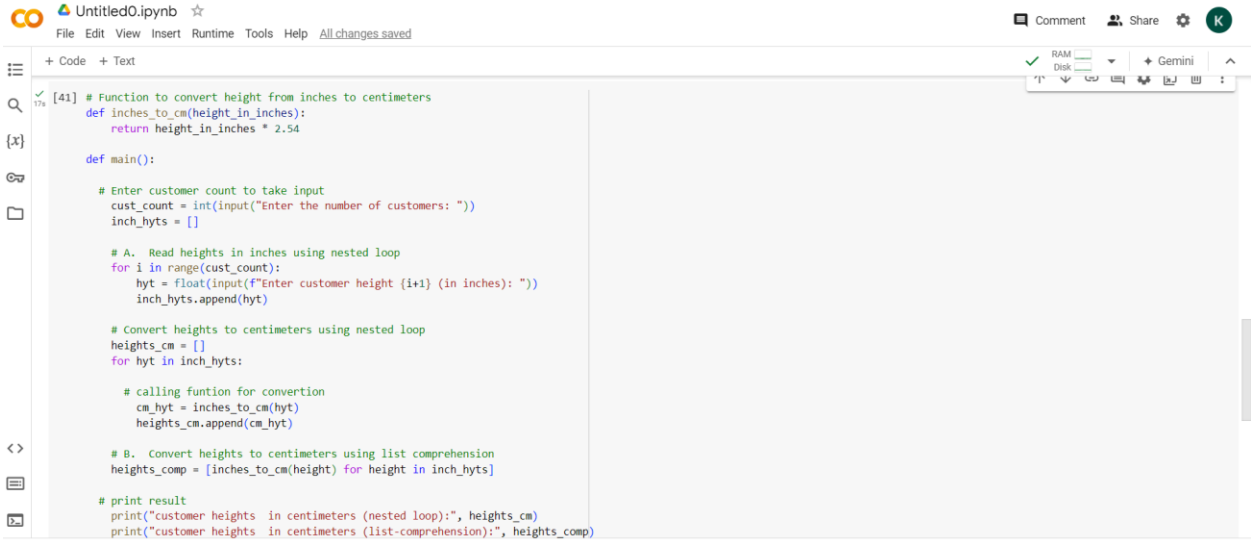
Gemini
word_count = count_words(line, word_counts)
# Writing the input file lines to output file
with open(output_filename, 'w') as output_file:
for line in readline:
output_file.write(line)
output_file.write("\nWord_Count:\n")
# Displaying the words and its count in output file
for word, count in word_counts.items():
output_file.write(f"{word}: {count}\n")
print(f"{word}: {count}")
except FileNotFoundError:
print(f"File '{input_filename}' not found.")
if __name__ == "__main__":
main()
Python: 1
Course: 2
Deep: 1
Learning: 1

Question 3: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Gemini
[41] # Function to convert height from inches to centimeters
def inches_to_cm(height_in_inches):
return height_in_inches * 2.54
def main():
# Enter customer count to take input
cust_count = int(input("Enter the number of customers: "))
inch_hyts = []
# A. Read heights in inches using nested loop
for i in range(cust_count):
hyt = float(input(f"Enter customer height {i+1} (in inches): "))
inch_hyts.append(hyt)
# Convert heights to centimeters using nested loop
heights_cm = []
for hyt in inch_hyts:
# calling funtion for convertion
cm_hyt = inches_to_cm(hyt)
heights_cm.append(cm_hyt)
# B. Convert heights to centimeters using list comprehension
heights_comp = [inches_to_cm(height) for height in inch_hyts]
# print result
print("customer heights in centimeters (nested loop):", heights_cm)
print("customer heights in centimeters (list-comprehension):", heights_comp)


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Gemini
[41] heights_cm = []
for hyt in inch_hyts:
# calling funtion for convertion
cm_hyt = inches_to_cm(hyt)
heights_cm.append(cm_hyt)
# B. Convert heights to centimeters using list comprehension
heights_comp = [inches_to_cm(height) for height in inch_hyts]
# print result
print("customer heights in centimeters (nested loop):", heights_cm)
print("customer heights in centimeters (list-comprehension):", heights_comp)
main()
Enter the number of customers: 4
Enter customer height 1 (in inches): 150
Enter customer height 2 (in inches): 155
Enter customer height 3 (in inches): 145
Enter customer height 4 (in inches): 148
customer heights in centimeters (nested loop): [381.0, 393.7, 368.3, 375.92]
customer heights in centimeters (list-comprehension): [381.0, 393.7, 368.3, 375.92]