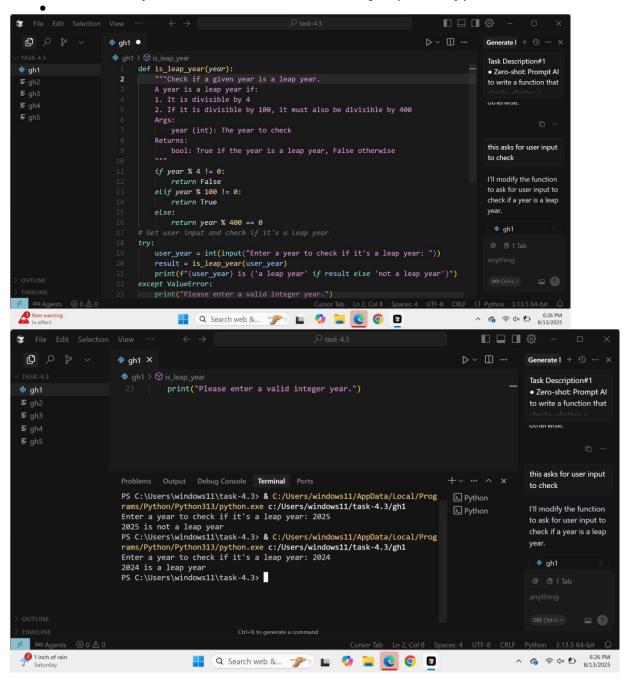
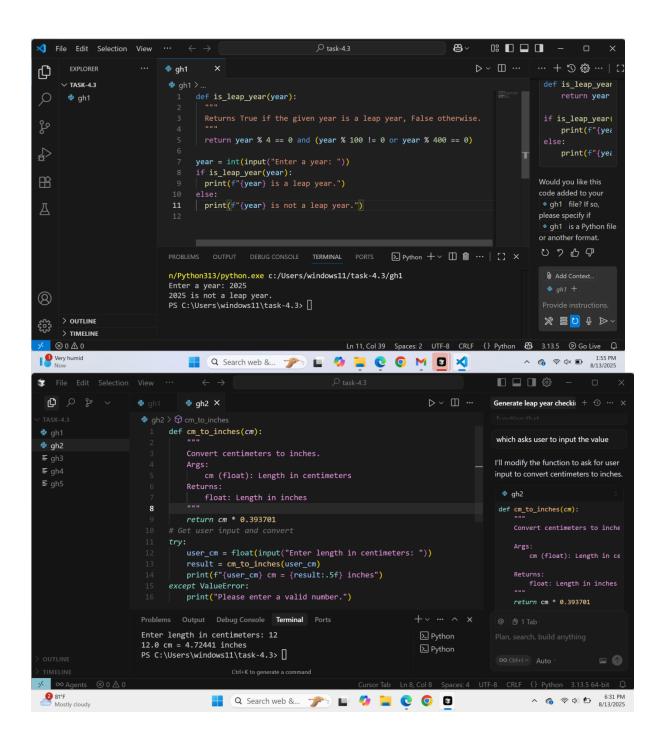
Task Description#1

• Zero-shot: Prompt AI to write a function that checks whether a given year is a leap year.

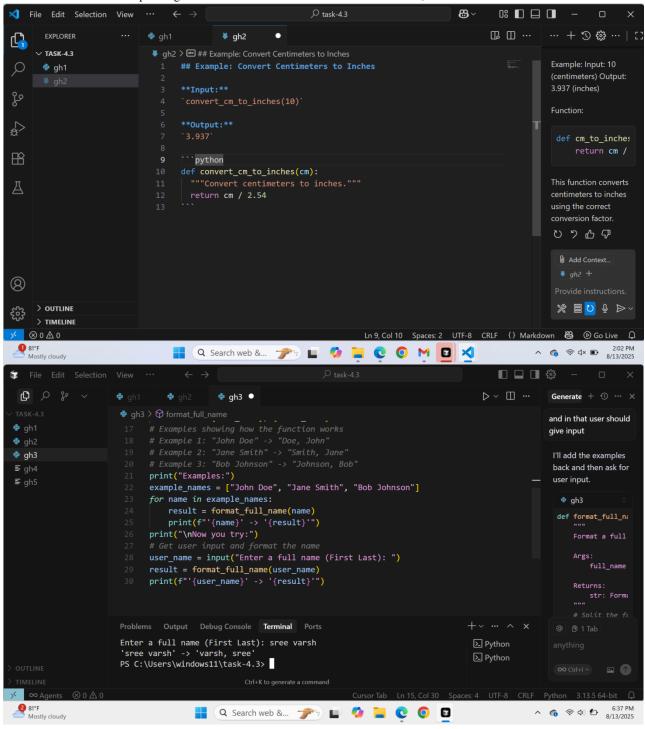


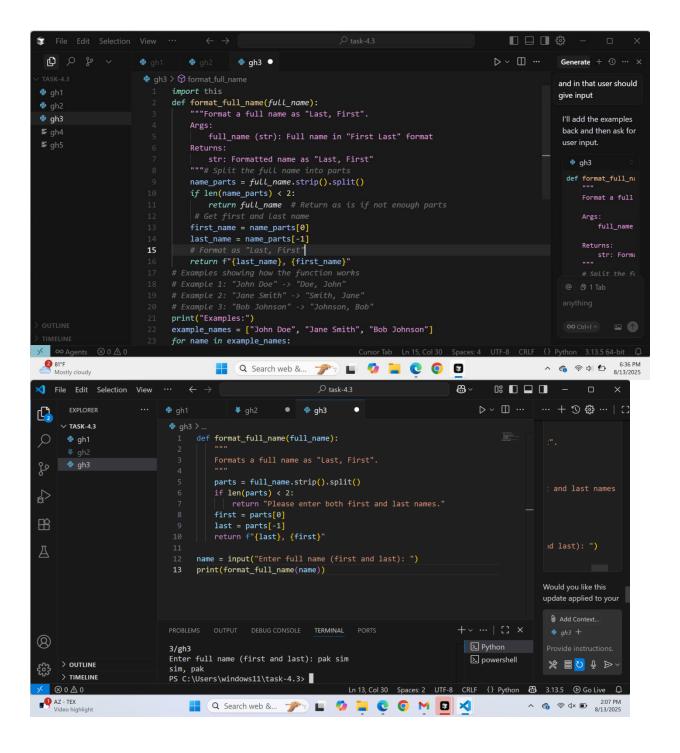
Task Description#2

• One-shot: Give one input-output example to guide AI in writing a function that converts centimeters to inches.



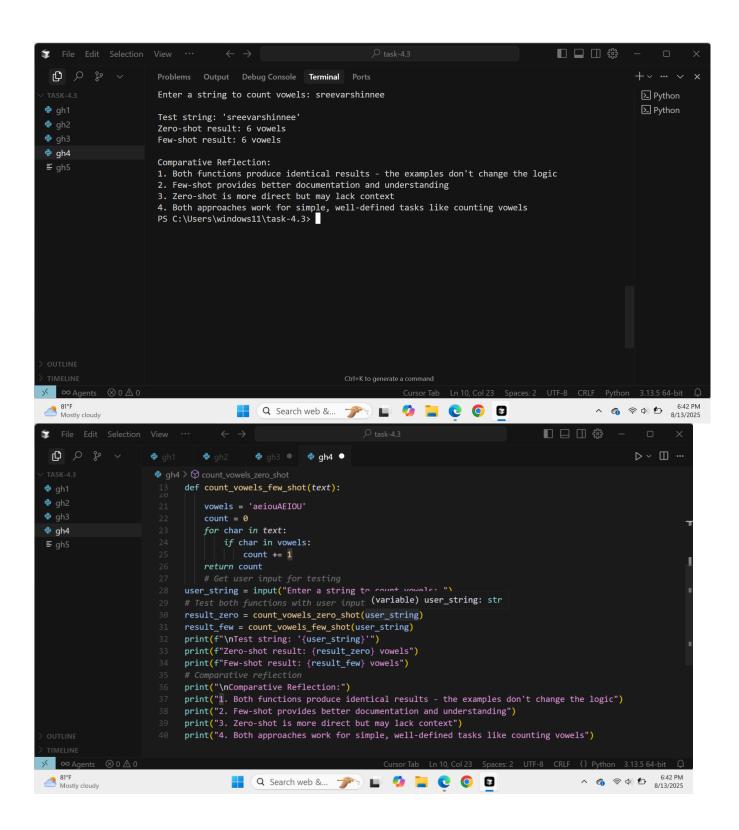
Few-shot: Provide 2-3 examples to generate a function that formats full names as "Last, First

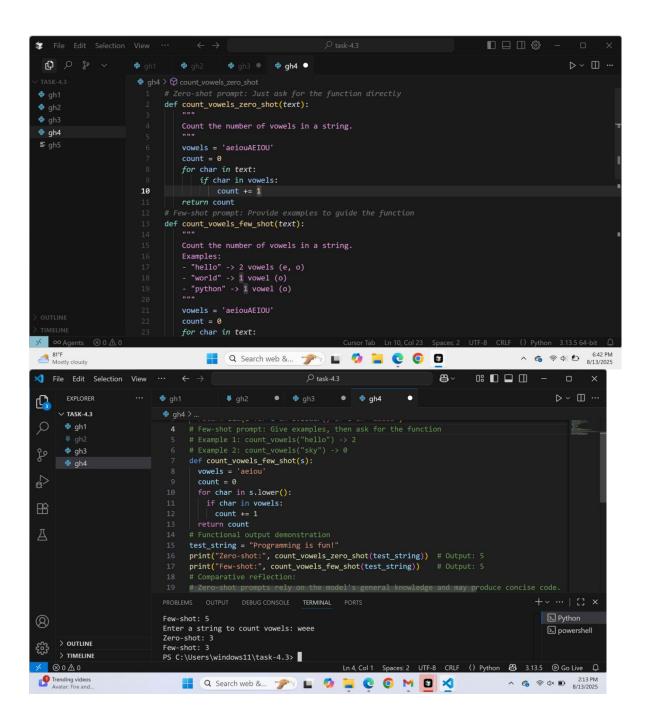




Task Description#4

• Compare zero-shot and few-shot prompts for writing a function that counts the number of vowels in a string.





```
83 ~
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                              🕏 gh1
                                                ₩ gh2
                                                                🕏 gh3
                                                                                 🕏 gh4
     ∨ TASK-4.3
      🕏 gh1
                                      def count_vowels_zero_shot(s):
                                      return sum(1 for c in s.lower() if c in 'aeiou')
       🕏 gh3
       🕏 gh4
                                      def count_vowels_few_shot(s):
                                        vowels = 'aeiou
                                        count = 0
                                        for char in s.lower():
                                          if char in vowels:
                                       return count
                                      test_string = "Programming is fun!"
                                     print("Zero-shot:", count_vowels_zero_shot(test_string)) # Output: 5
print("Few-shot:", count_vowels_few_shot(test_string)) # Output: 5
# Comparative reflection:
(8)
     > OUTLINE
                                      user_input = input("Enter a string to count vowels: ")
     > TIMELINE
                                      print("Zero-shot:", count_vowels_zero_shot(user_input))
                                                                             Ln 4, Col 1 Spaces: 2 UTF-8 CRLF {} Python
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                                                                                                                      8 3.13.5 ⑤ Go Live
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Earnings
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```

Task Description#5

Use few-shot prompting to generate a function that reads a .txt file and returns the number of lines.

