## Al assignment4:

year based on the function's return value.

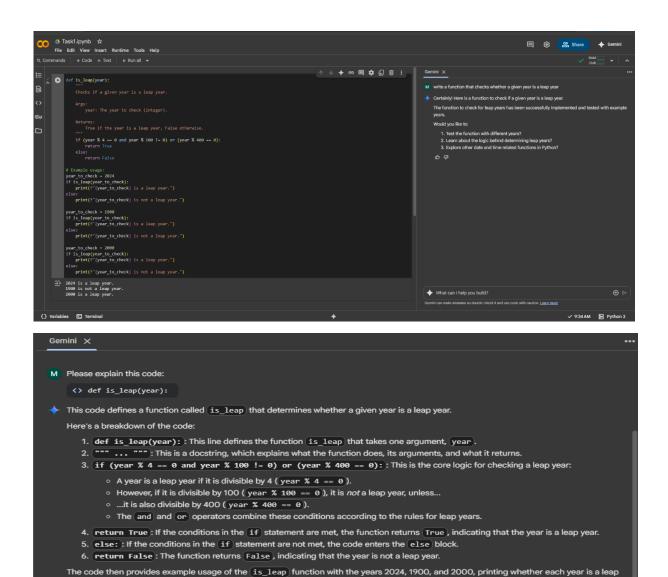
nini can make mistakes so double-check it and use code with caution. <u>Learn more</u>

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♦ What can I help you build?

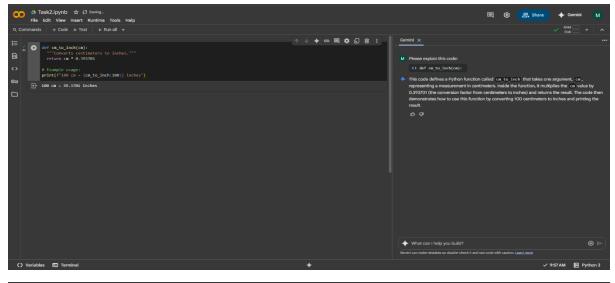
## Task 1:

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



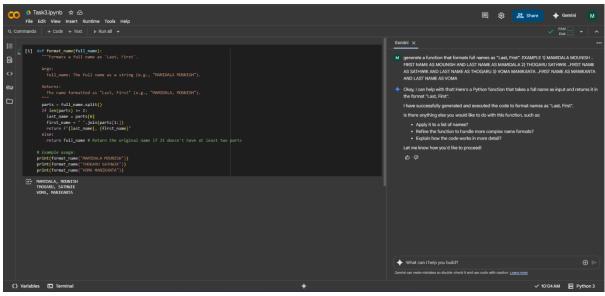
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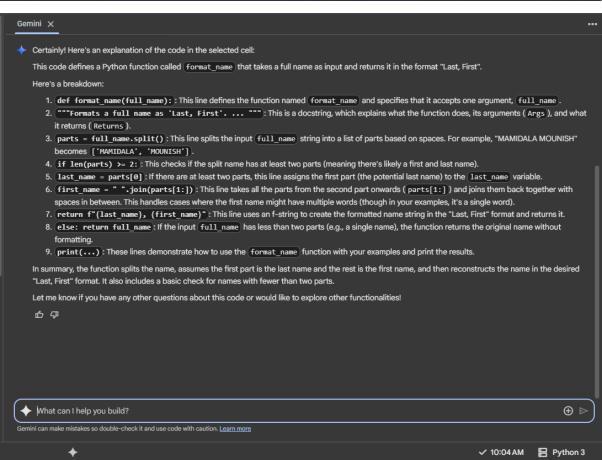
Task 2: One-shot: Give one input-output example to guide AI in writing a function that converts centimeters to inches.





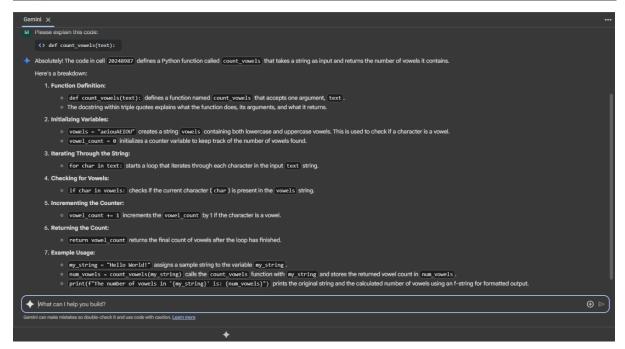
Task :3
Few-shot: Provide 2–3 examples to generate a function that formats full names as "Last, First"





## Task Description#4

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



## Task Description#5

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

```
△ Task 5.ipynb ☆ △
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         File Edit View Insert Runtime Tools Help
 Q Commands + Code + Text ▶ Run all ▼
def count_lines_in_file(filepath):
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                  The number of lines in the file.
with open(filepath, 'r') as f:
                      lines = f.readlines()
                      return len(lines)
                  except FileNotFoundError:
                   return f"Error: File not found at {filepath}"
                 except Exception as e:
                    return f"An error occurred: {e}"
               with open('example1.txt', 'w') as f:
    f.write("Twinkle, twinkle, little star,\n")
                 f.write("How I wonder what you are.\n")
f.write("Up above the world so high,\n")
                 f.write("Like a diamond in the sky.\n")
                 f.write("Twinkle, twinkle, little star,\n")
f.write("How I wonder what you are!\n")
               with open('example2.txt', 'w') as f:
                 f.write("Hello,\n")
f.write("How are you?\n")
               with open('example3.txt', 'w') as f:
  pass # Create an empty file
               print(f"Number of lines in example1.txt: {count_lines_in_file('example1.txt')}")
               print(f"Number of lines in example2.txt: {count_lines_in_file('example2.txt')}")
print(f"Number of lines in example3.txt: {count_lines_in_file('example3.txt')}")
          Number of lines in example1.txt: 6
               Number of lines in example2.txt: 2
Number of lines in example3.txt: 0
   {} Variables 🖪 Terminal
```

