**ASSIGNMENT: 9.3** 

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BATCH: 12

## Task:1

**Basic Docstring Generation** 

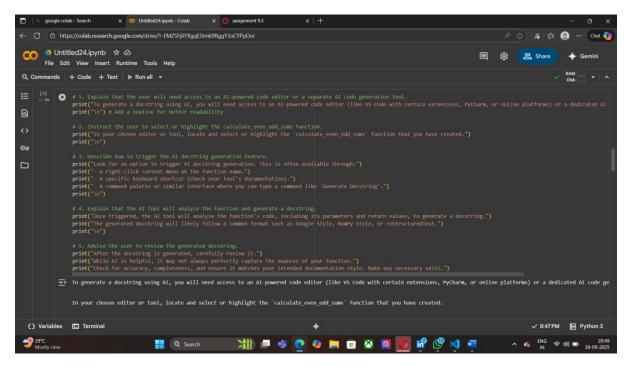
- Write python function to return sum of even and odd numbers in the given list.
- Incorporate manual docstring in code with Google Style
- Use an AI-assisted tool (e.g., Copilot, Cursor AI) to generate a docstring describing the function.
- Compare the AI-generated docstring with your manually written one

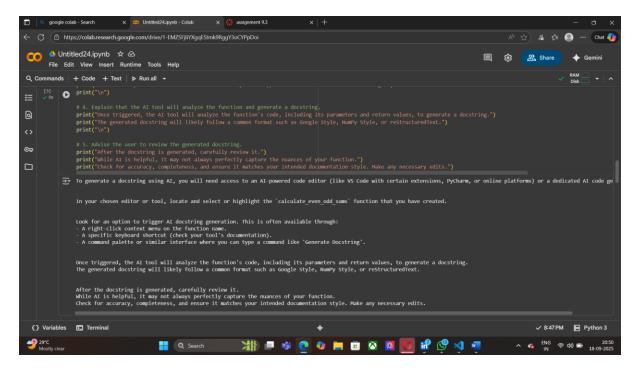
Expected Output#2: Students critically analyze AI-generated code comments.

# **Prompt:**

Write a Python function that returns the sum of even and odd numbers in a given list.

- Manually add a Google-style docstring to the function describing its purpose, parameters, and return values.
- Use an AI-assisted tool (such as Copilot or Cursor AI) to generate a docstring for the same function.
- Compare the AI-generated docstring with your manually written one and note any differences in clarity, detail, or formatting.





# TASK 2:

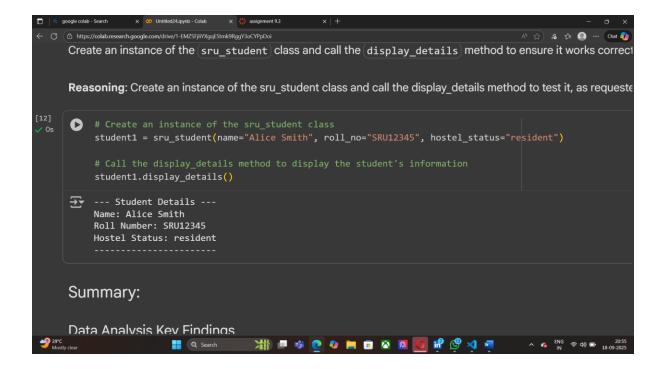
#### **Automatic Inline Comments**

- Write python program for sru\_student class with attributes like name, roll no., hostel\_status and fee\_update method and display\_details method.
- Write comments manually for each line/code block
- Ask an AI tool to add inline comments explaining each line/step.
- Compare the AI-generated comments with your manually written one. Expected Output#2: Students critically analyze AI-generated code comments.

# **Prompt:**

Write a Python program defining an sru\_student class with the following:

- Attributes: name, roll\_no, hostel\_status
- Methods: fee\_update and display\_details
- 1. Manually add inline comments for each line or code block, explaining the logic.
- 2. Use an AI tool (such as Copilot or Cursor AI) to generate inline comments for the same code.
- 3. Compare the AI-generated comments with your manually written ones and analyze the differences in clarity, accuracy, and usefulness.



## Task 3:

- Write a Python script with 3–4 functions (e.g., calculator: add, subtract, multiply, divide).
- Incorporate manual docstring in code with NumPy Style
- Use AI assistance to generate a module-level docstring + individual function docstrings.
- Compare the AI-generated docstring with your manually written one. Expected Output#3: Students learn structured documentation for multi-function scripts

#### **Prompt:**

Write a Python script containing 3–4 functions (for example, a calculator with add, subtract, multiply, and divide functions).

- 1. Manually add NumPy-style docstrings to each function.
- 2. Use an AI tool (such as Copilot or Cursor AI) to generate a module-level docstring and individual function docstrings.
- 3. Compare the AI-generated docstrings with your manually written ones, noting differences in structure, clarity, and completeness.

