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# Lab 9 – Documentation Generation (Modified Examples)

## Task 1: Google-Style Docstrings for Python Functions

**Prompt:** “Add Google-style docstrings to all functions without input-output examples. Include function description, parameter types, return type, and example usage.”

**Code:**

A screenshot of a computer program

AI-generated content may be incorrect.

**Output:**

**Observation:** The function now has a professional Google-style docstring, improving clarity and usability.

## Task 2: Inline Comments for Complex Logic

**Prompt:** “Add meaningful inline comments explaining complex logic parts only.”

**Code:/Output:**

A computer screen shot of a program

AI-generated content may be incorrect.

**Observation:** Inline comments explain the non-trivial logic of updating the Fibonacci sequence in a clear way.

## Task 3: Module-Level Documentation

**Prompt:** “Write a module-level docstring summarizing the purpose, dependencies, and main functions.”

**Code:/Output:**

A screen shot of a computer

AI-generated content may be incorrect.**Observation:** The module-level docstring provides a helpful overview of the file’s purpose and functionality.

## Task 4: Convert Comments to Structured Docstrings

**Prompt:** “Transform existing inline comments into structured Google-style docstrings.”

**Code:/Output:**

A screen shot of a computer program

AI-generated content may be incorrect.

**Observation:** Structured docstring provides a clear, standard format for function documentation improving usability and maintainability.

## Task 5: Review and Correct Docstrings

**Prompt:** “Identify and fix inaccuracies in existing docstrings.”

**Code:**

**A screen shot of a computer

AI-generated content may be incorrect.Observation:** The corrected docstring now accurately reflects the function’s behavior following Google style.

## Task 6: Prompt Comparison Experiment

**Prompt:** - Vague: “Add comments to this function.” - Detailed: “Add a Google-style docstring with description, parameters, return type, and example usage.”

**Code:**

**A screen shot of a computer program

AI-generated content may be incorrect.Output:**

Vague prompt output (cube of 3): 27  
Detailed prompt output (cube of 3): 27

**Observation:** The detailed prompt produces a complete Google-style docstring improving function usability, while the vague prompt produces only a simple inline comment.