**AI ASSISTED CODING**

**LAB ASSIGNMENT - 3.2**

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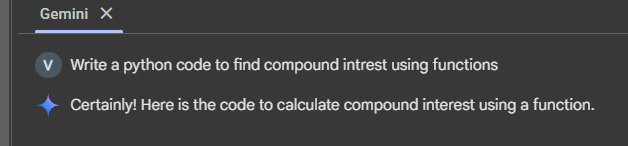
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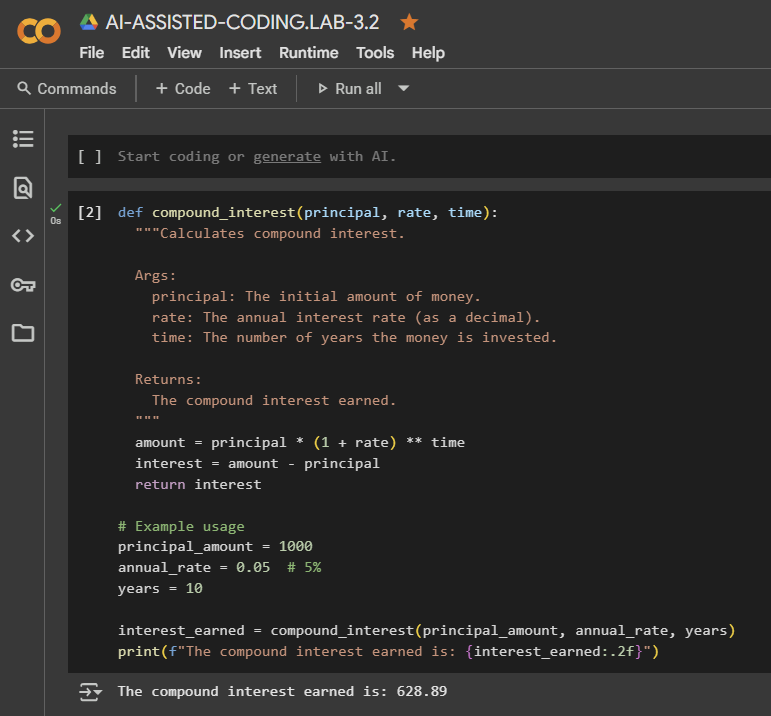
**Task Description#1**

* Ask AI to write a function to calculate compound interest, starting with only the function name. Then add a docstring, then input-output example.

**Expected Output#1**

* Comparison of AI-generated code styles.

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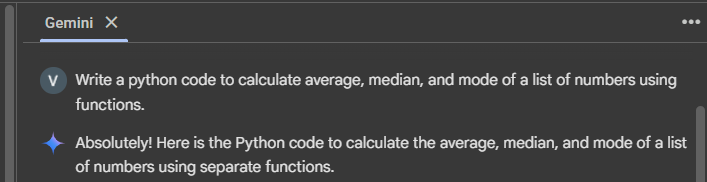
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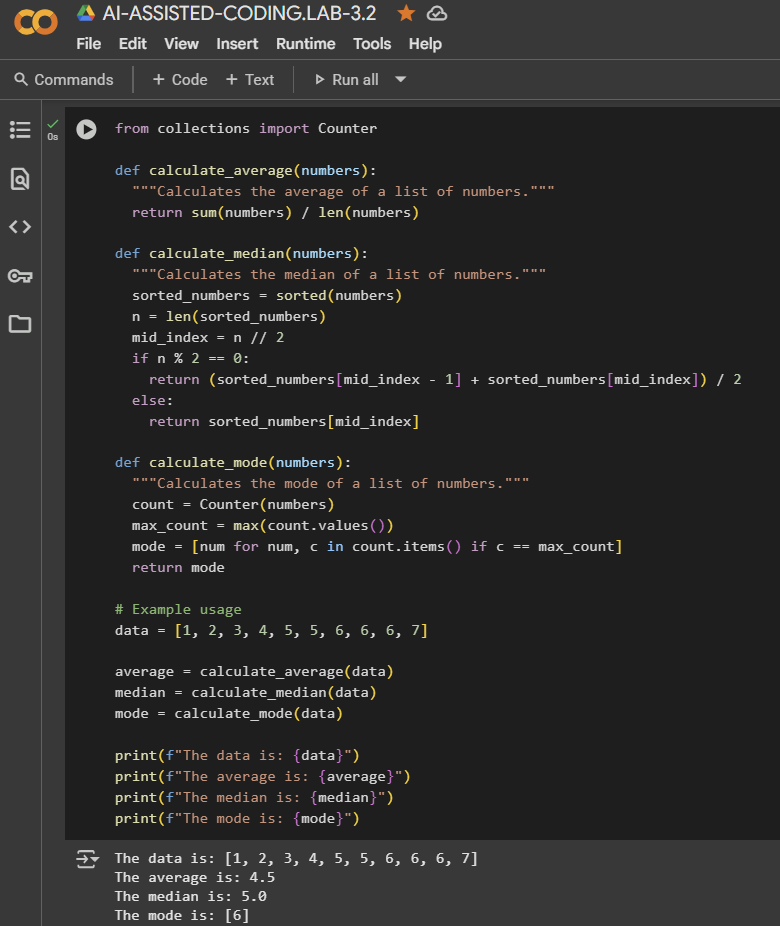
**Task Description#2**

* Do math stuff, then refine it to: # Write a function to calculate average, median, and mode of a list of numbers.

**Expected Output#2**

* AI-generated function evolves from unclear to accurate multi-statistical operation.



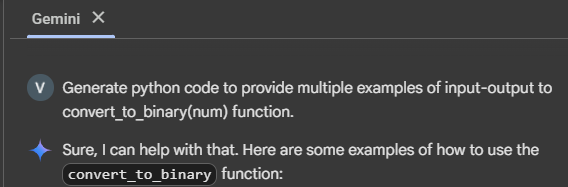


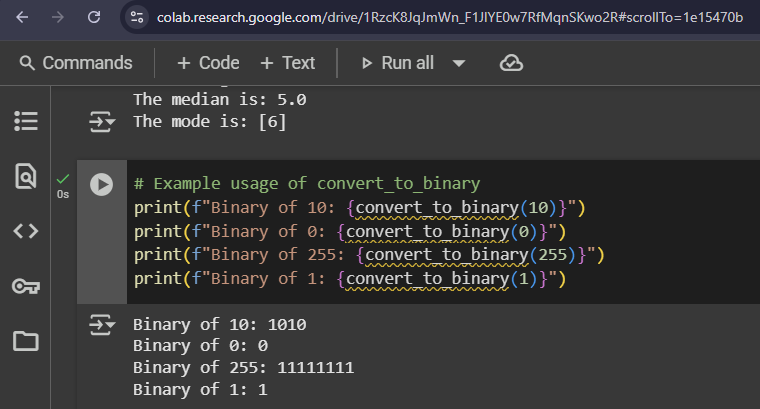
**Task Description#3**

* Provide multiple examples of input-output to the AI for convert\_to\_binary(num) function. Observe how AI uses few-shot prompting to generalize.

**Expected Output#3**

* Enhanced AI output with clearer prompts .



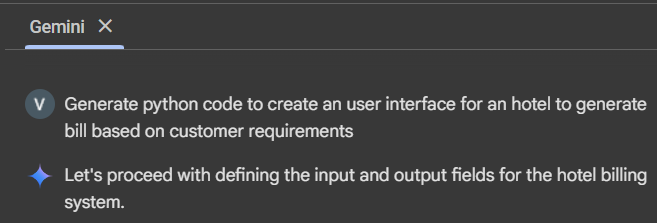


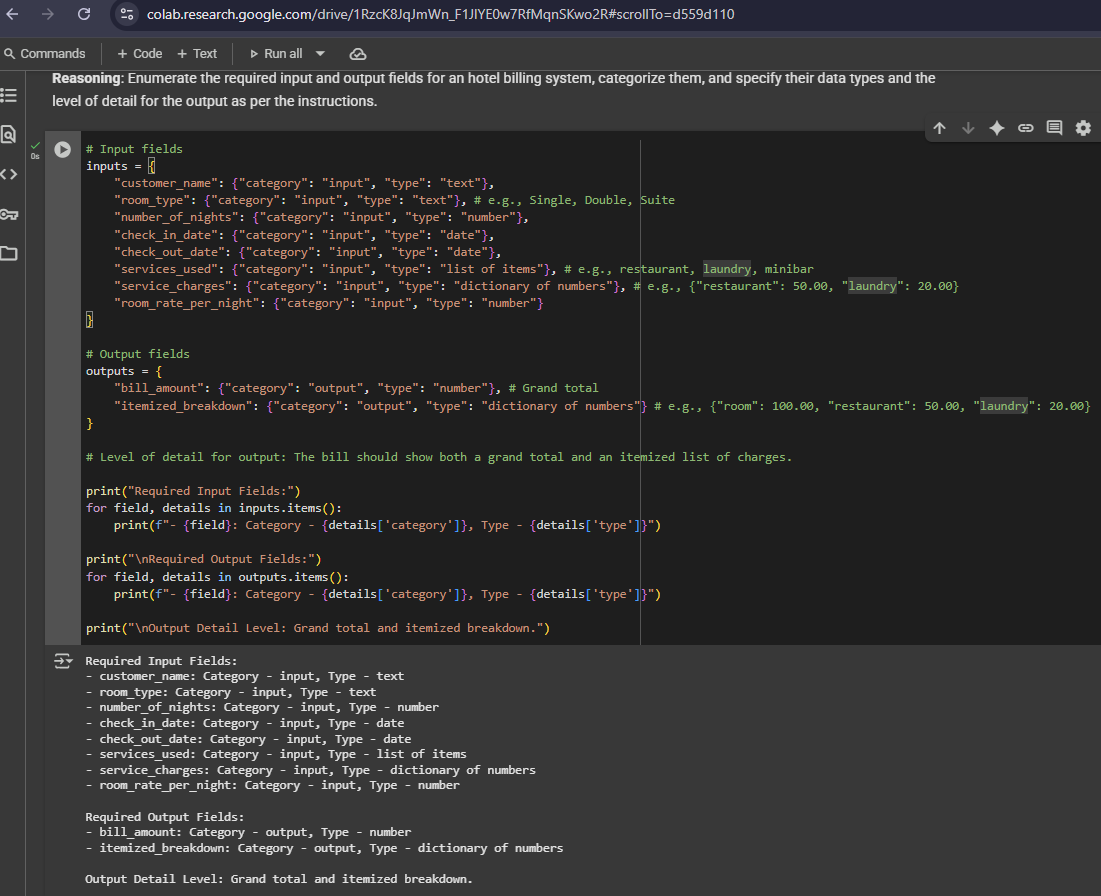
**Task Description#4**

* Create an user interface for an hotel to generate bill based on customer requirements.

**Expected Output#4**

* Consistent functions with shared logic.



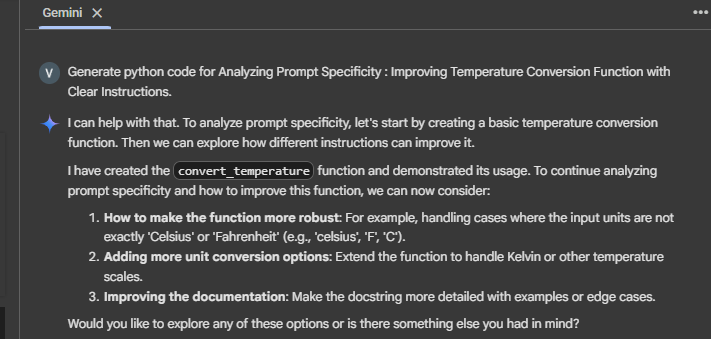


**Task Description#5**

* Analyzing Prompt Specificity: Improving Temperature Conversion Function with Clear Instructions.

**Expected Output#5**

* Code quality difference analysis for various prompts.

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