# AI ASSISSTED CODING LAB EXAM-2

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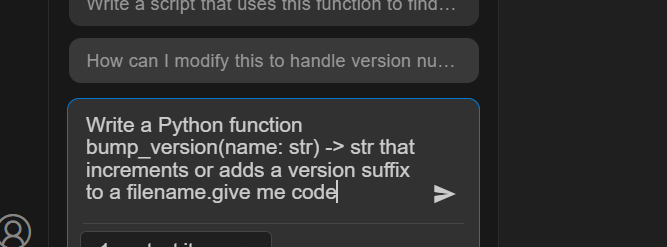
BATCH NO: 05

SUBGROUP-D

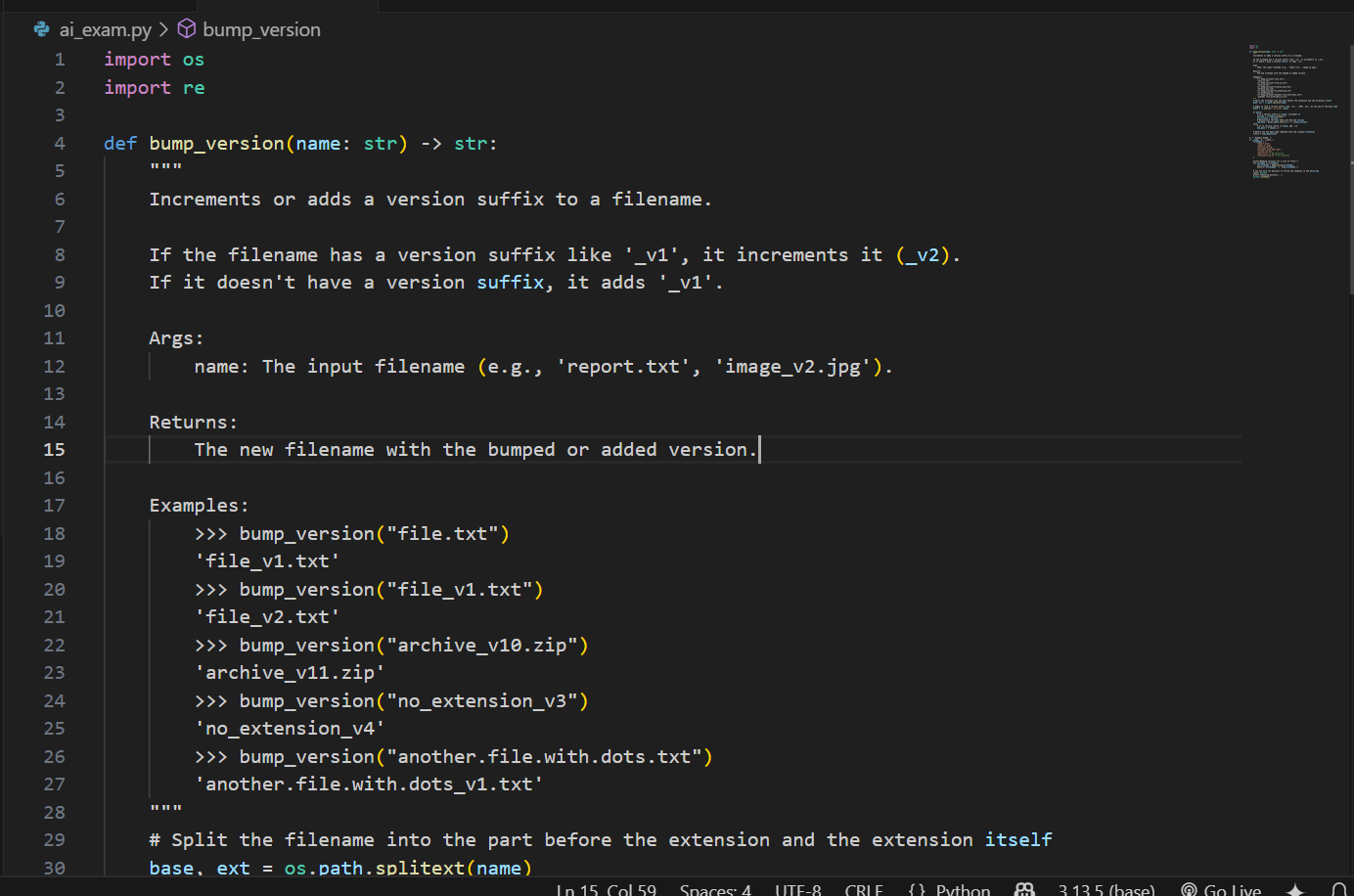
**TASK:1**

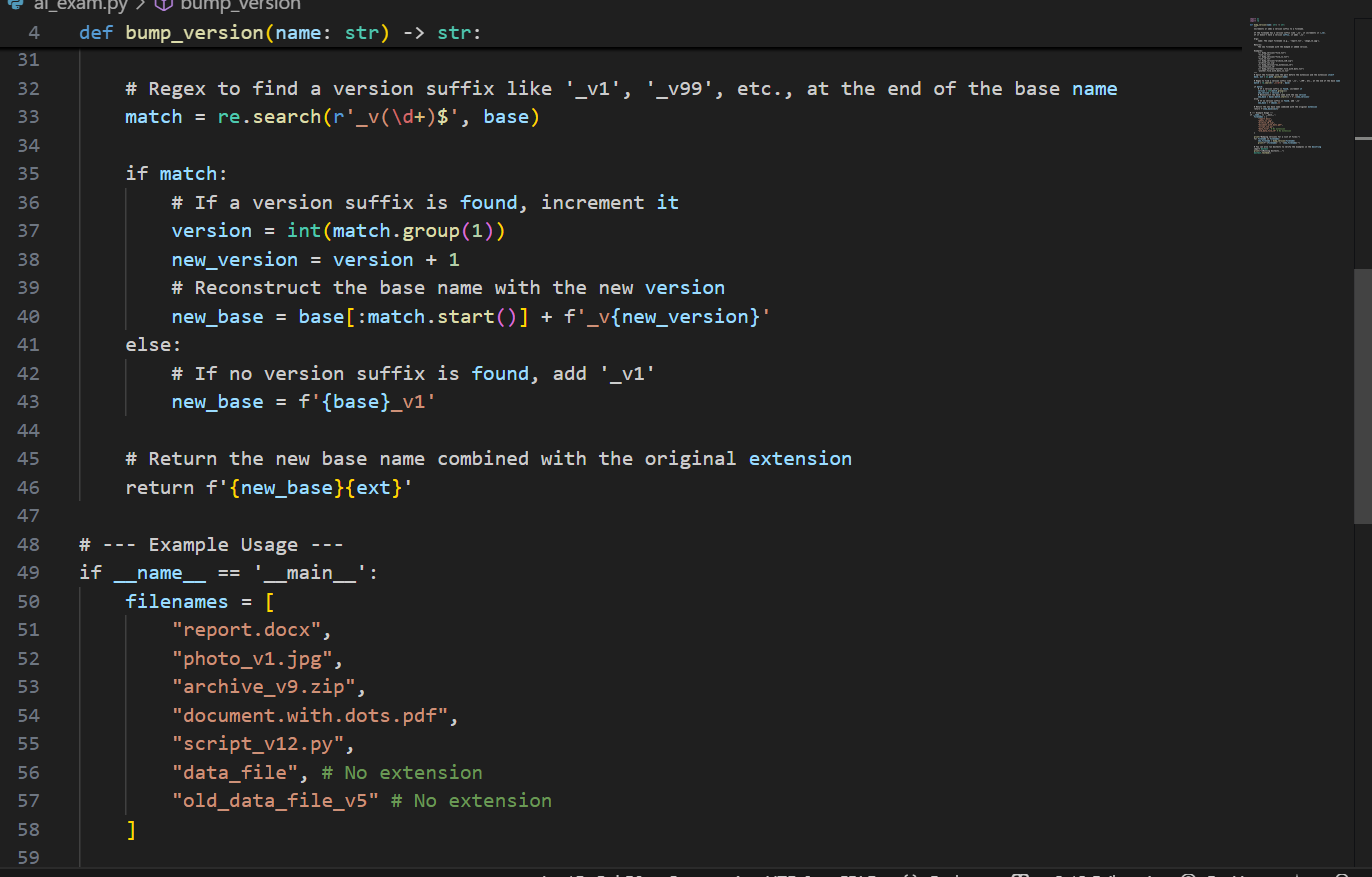
Scenario (sports analytics):  
Context:  
File versioning in the sports analytics data pipeline uses a `\_vNN` suffix before the extension.  
Your Task:  
Create tests and implement bump\_version(name) that adds or increments `\_vNN` with zero-  
padding.  
Data & Edge Cases:  
Handle names with and without existing suffix; preserve original extension.  
AI Assistance Expectation:  
Use AI to propose regex and test cases for edge names like `report\_v9.csv`, `summary.csv`.  
Constraints & Notes:  
Preserve original extension and base name.  
Sample Input  
['report\_v1.csv', 'summary.csv', 'log\_v09.txt']  
Sample Output  
['report\_v02.csv', 'summary\_v01.csv', 'log\_v10.txt']  
Acceptance Criteria: Correct zero-padding; extension preserved

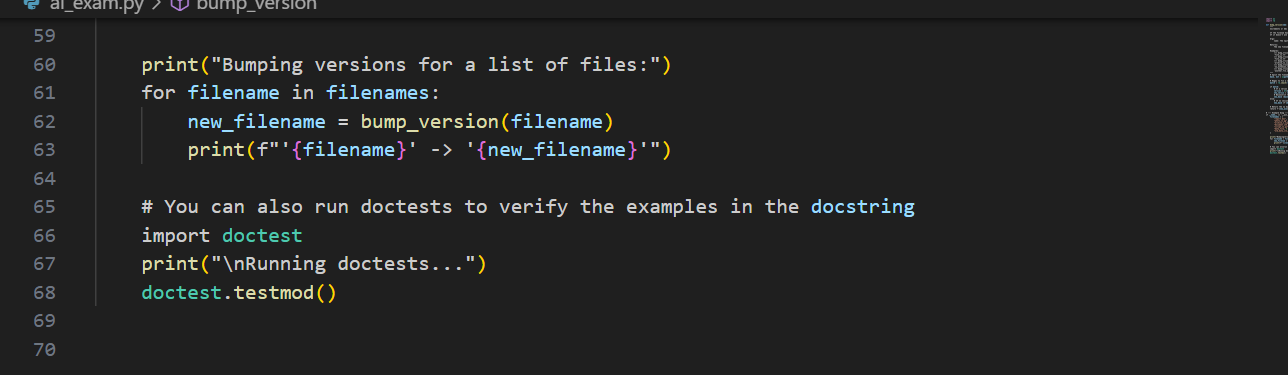
**PROMPT:**

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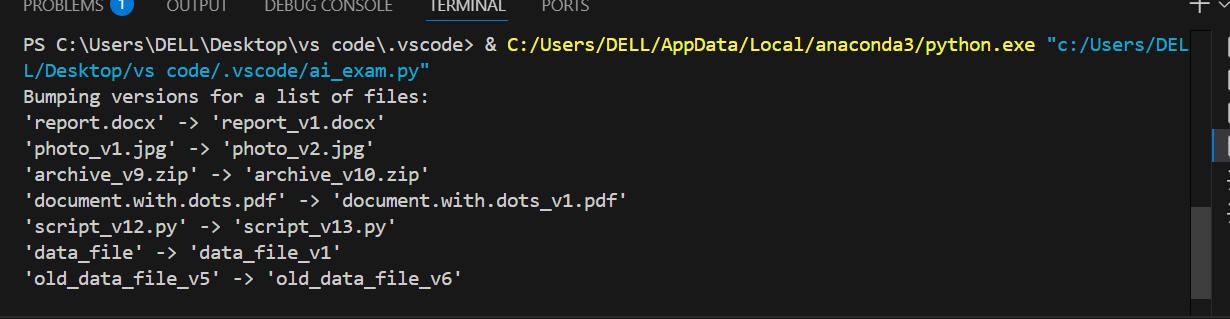
**CODE:**

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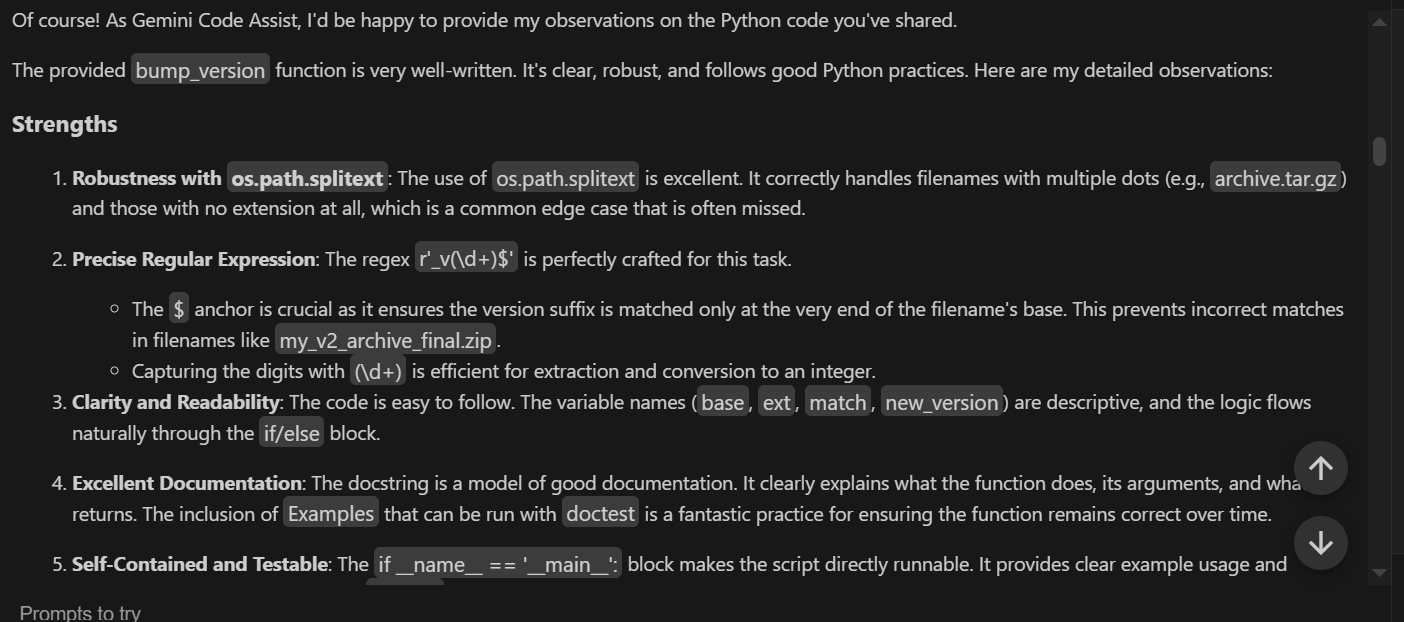
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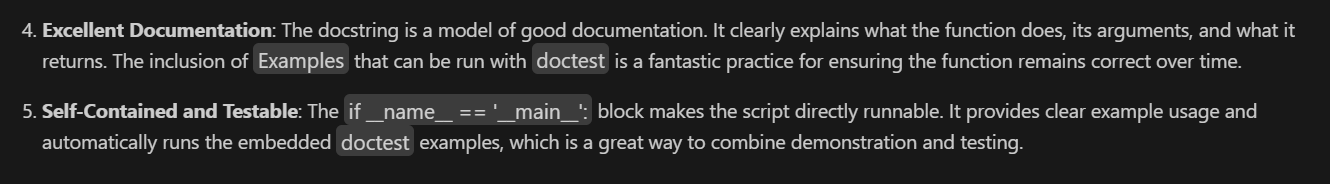
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**OUTPUT:**

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**OBSERVATIONS:**

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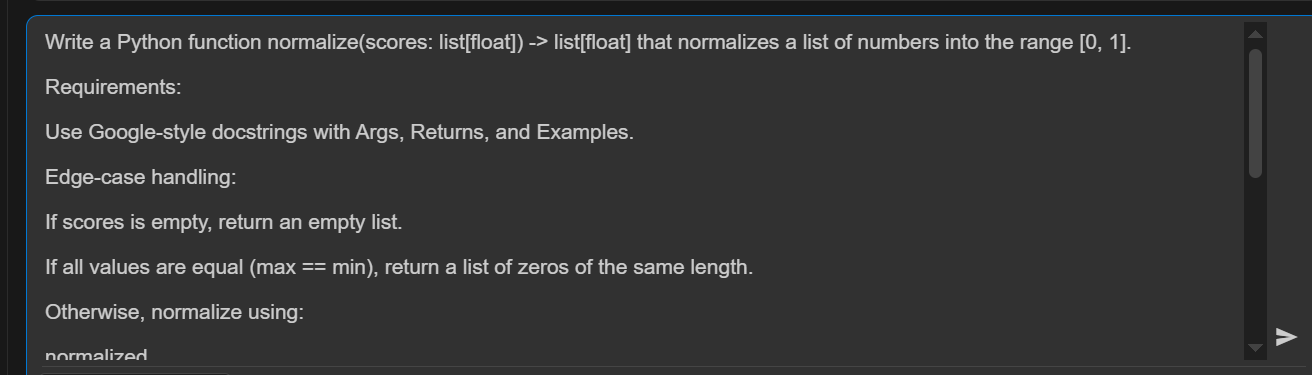
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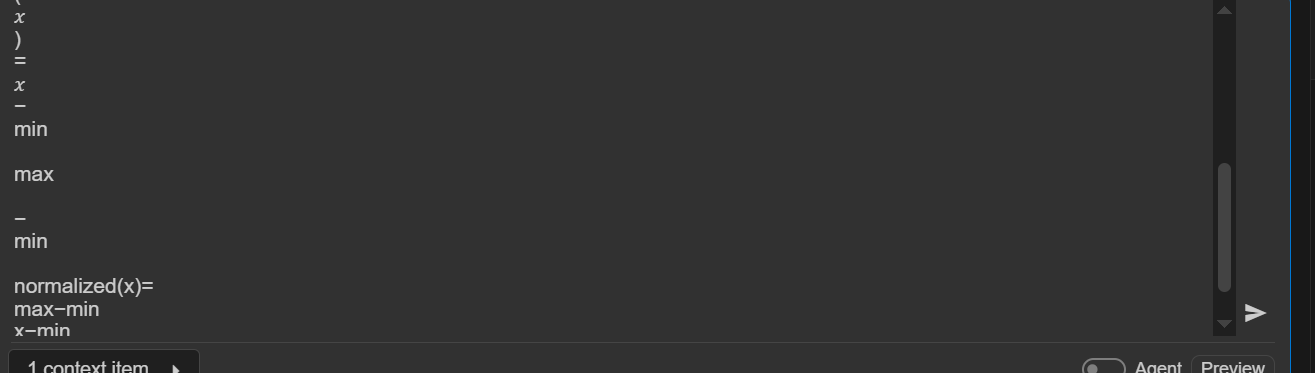
**TASK:2**

Scenario (sports analytics):  
Context:

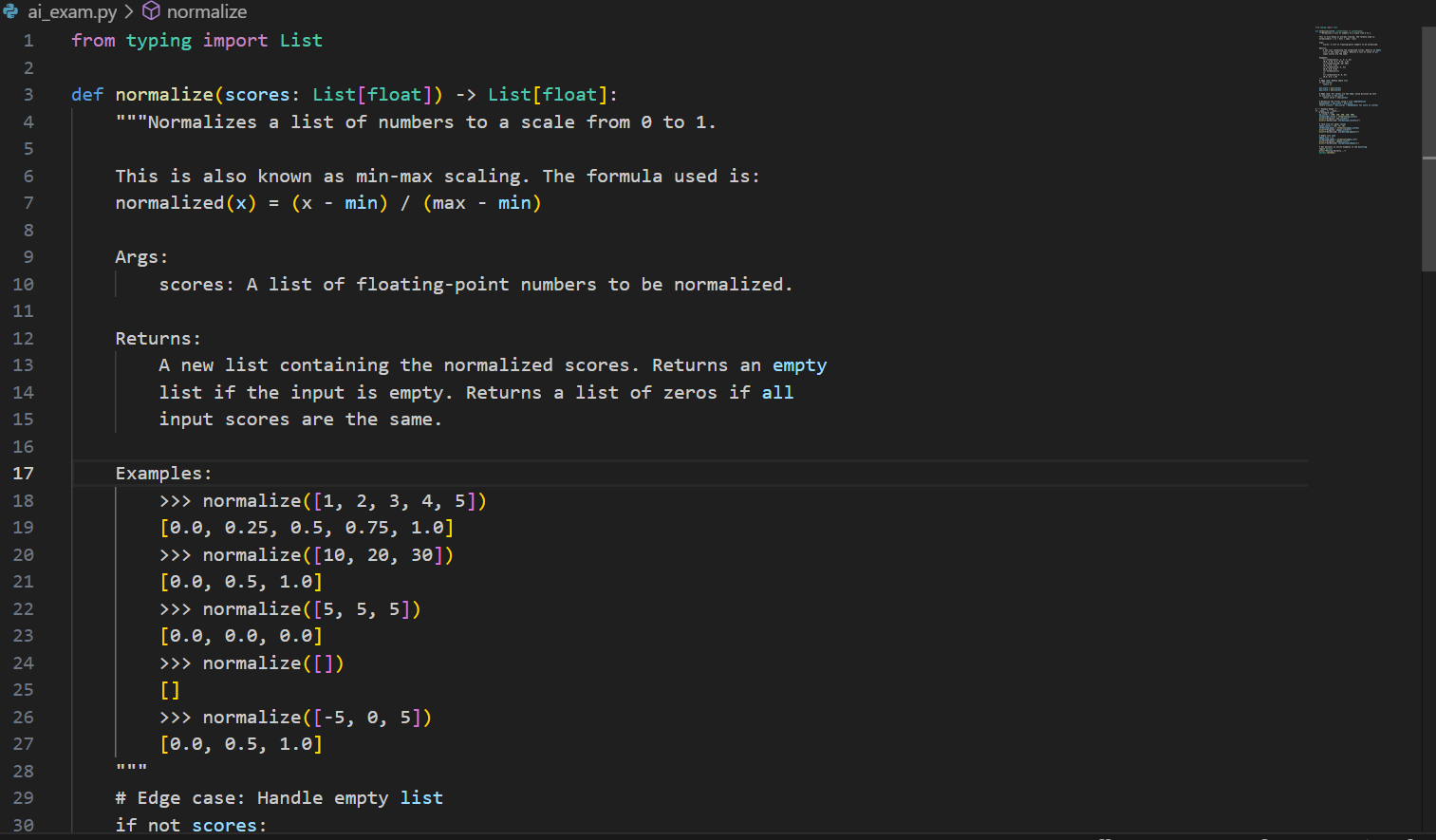
Data analysts in sports analytics normalize metrics to [0,1] for comparability.  
Your Task:  
Add Google-style docstrings and handle the edge-case where all scores are equal (avoid divide-  
by-zero).  
Data & Edge Cases:  
Empty lists return empty; if max==min, return zeros of the same length.  
AI Assistance Expectation:  
Use AI to draft docstrings with Args/Returns/Examples and generate unit tests for edge-cases.  
Constraints & Notes:  
Add tests demonstrating the m==n case.  
Sample Input  
def normalize(scores):  
m = max(scores); n = min(scores)  
return [(x-n)/(m-n) for x in scores]  
Sample Output  
Docstring includes Args/Returns/Examples; guard for m==n  
Acceptance Criteria: Doc quality and guard confirmed by tests.

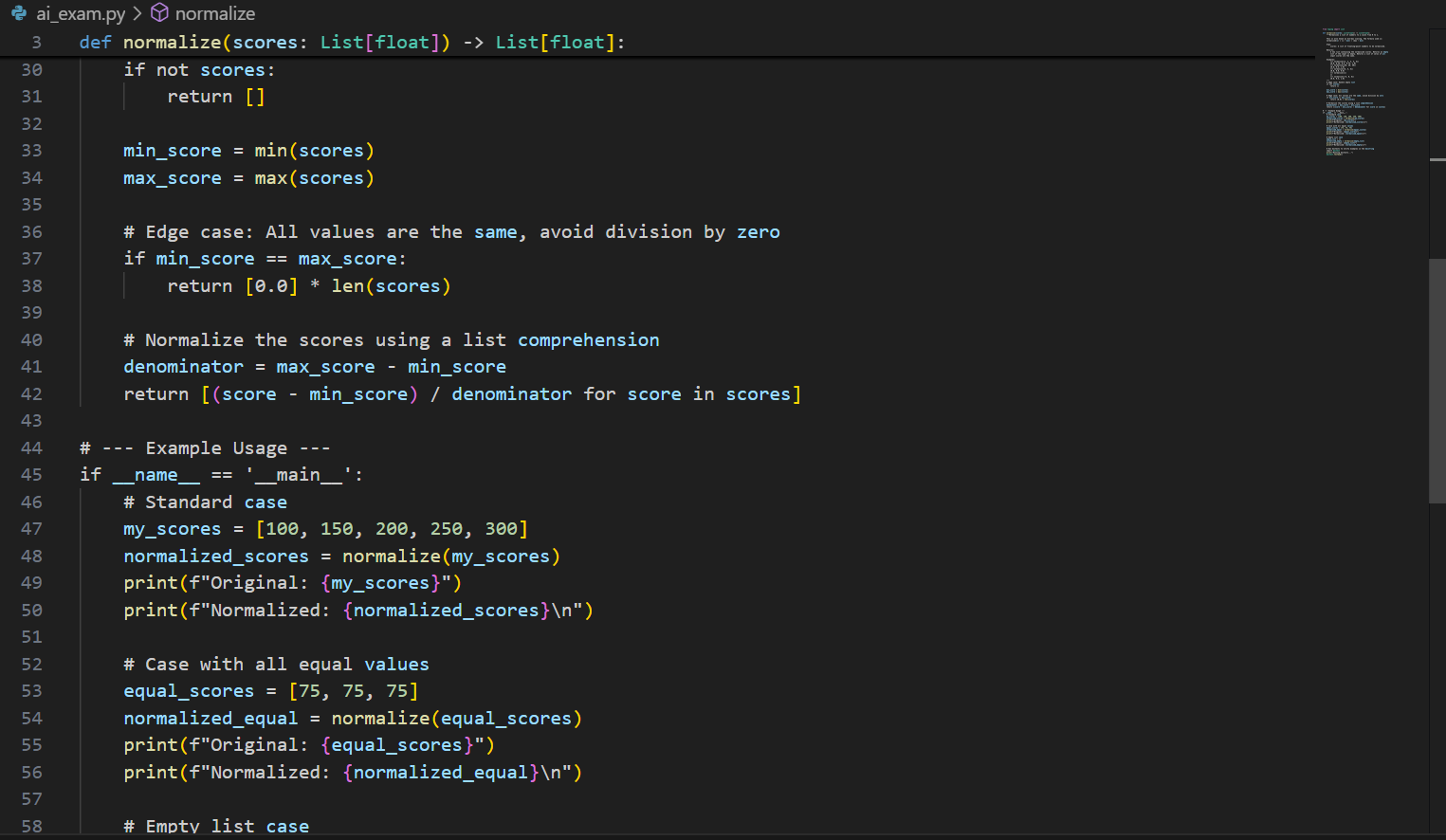
**PROMPT:**

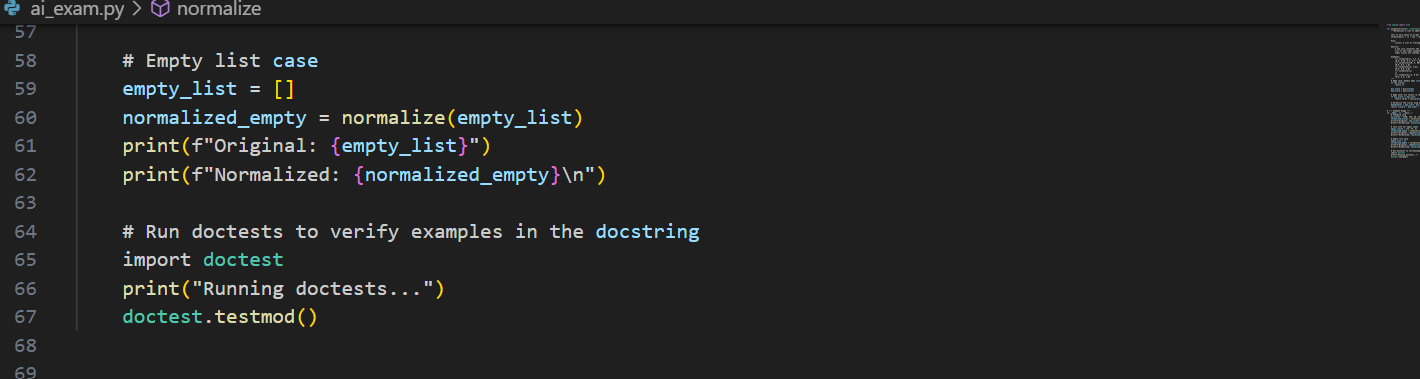
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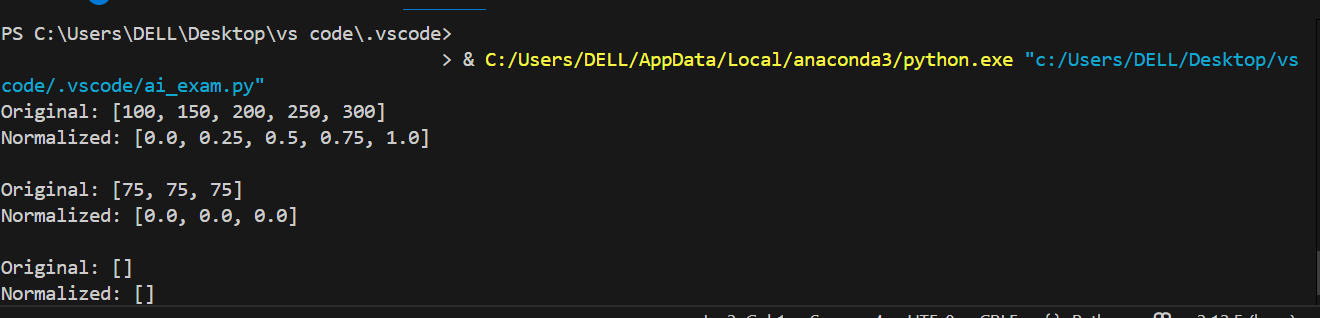
**CODE:**

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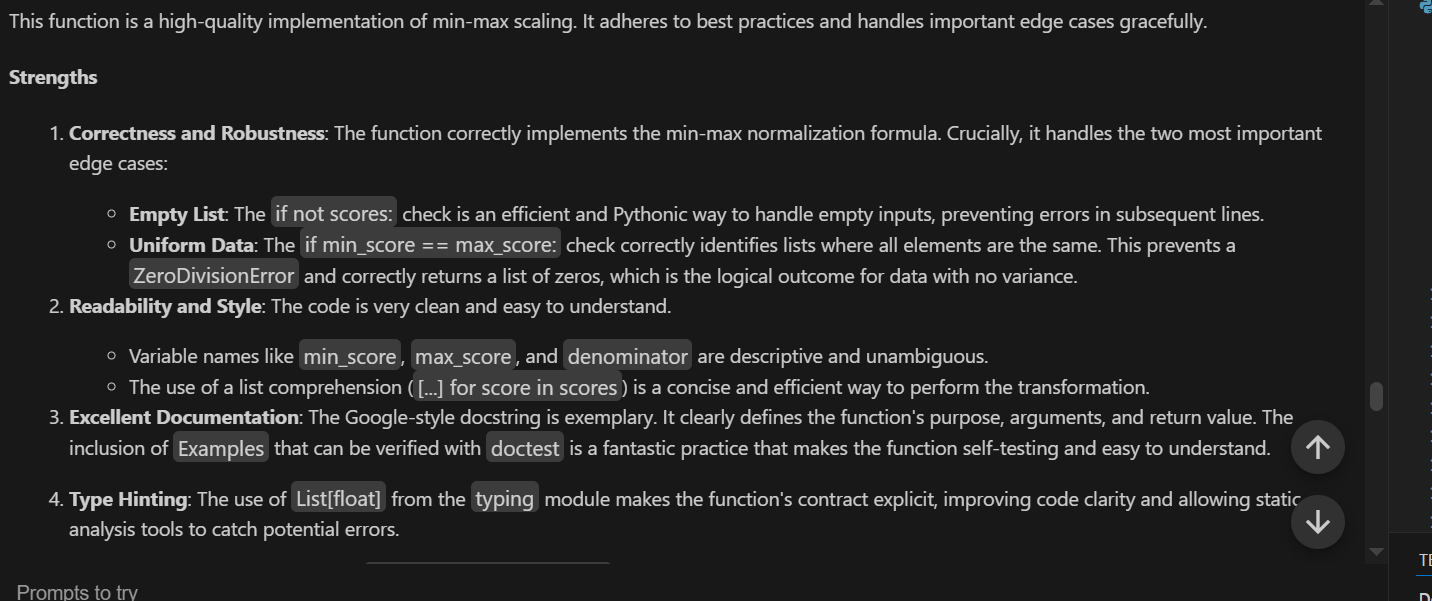
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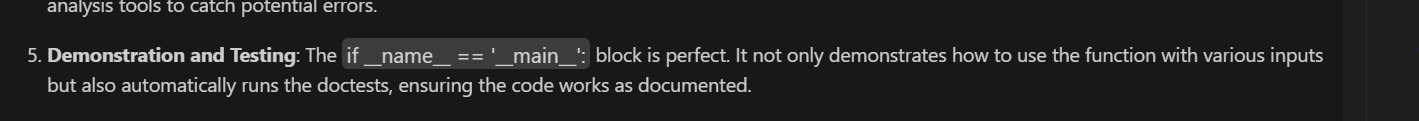
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**OUTPUT:**

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**OBSERVATIONS:**

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-----------------------THE END--------------------------