**AIPP LAB 1**

**Name: MAHVISH ISAQ**

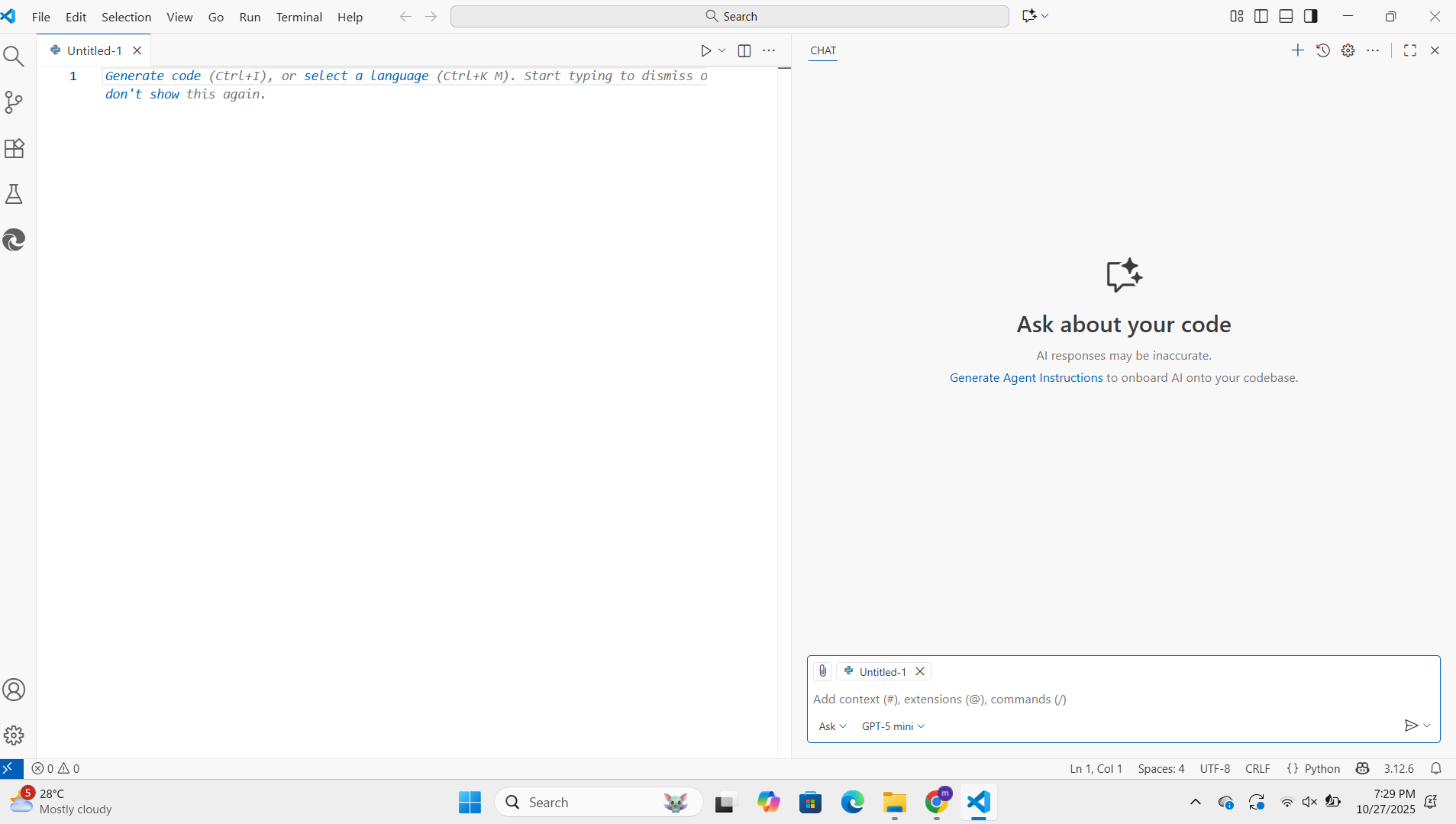
**Hall Ticket No.: 2503B05134**

**Date: 27/10/2025 (Week 1)**

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**Task 1:**

**Install and configure GitHub Copilot in VS Code.**



**Task 2:**

**USE COPILOT TO GENERATE is\_prime() PYTHON FUNCTION.**

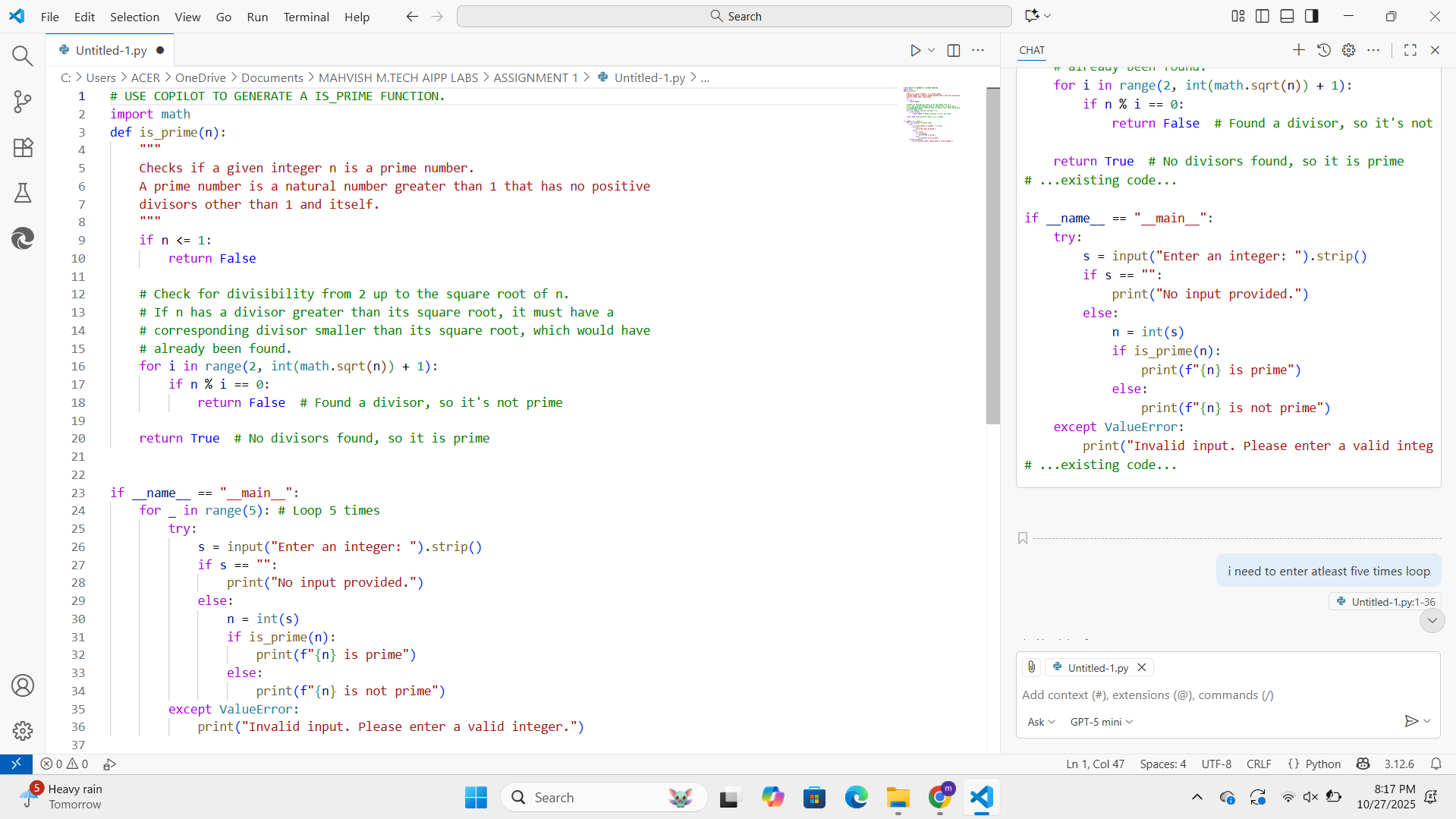
***PROMPTS:***

**1) Use Copilot to generate is\_prime() python function.**

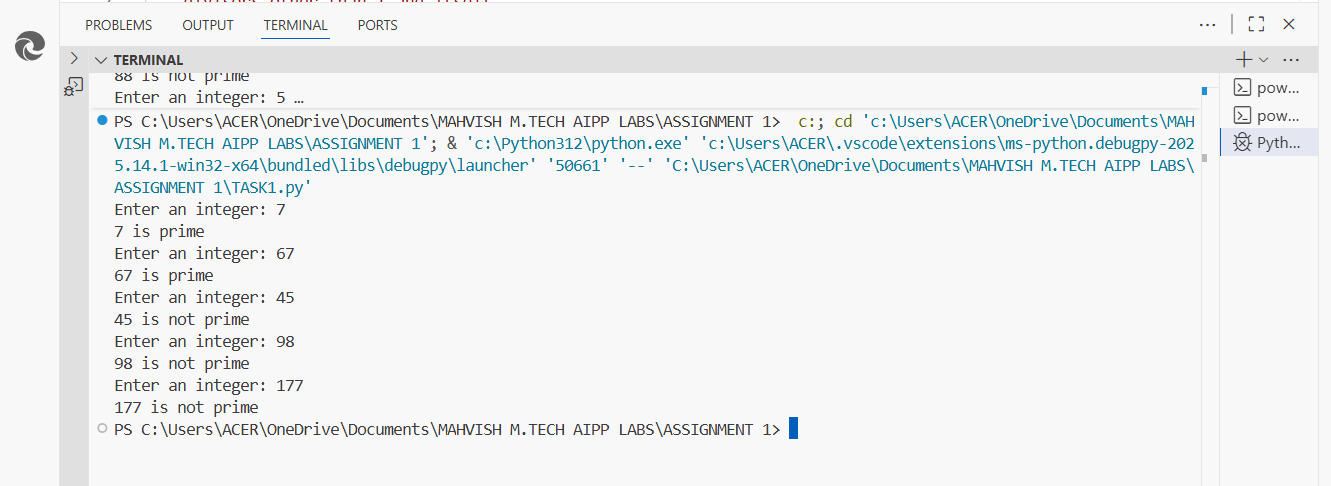
**2) Update code so that input can be entered by the User.**

**3) I need to enter at least 5 times the loop so update code.**

***CODE:***



***OUTPUT:***



**Task 3:**

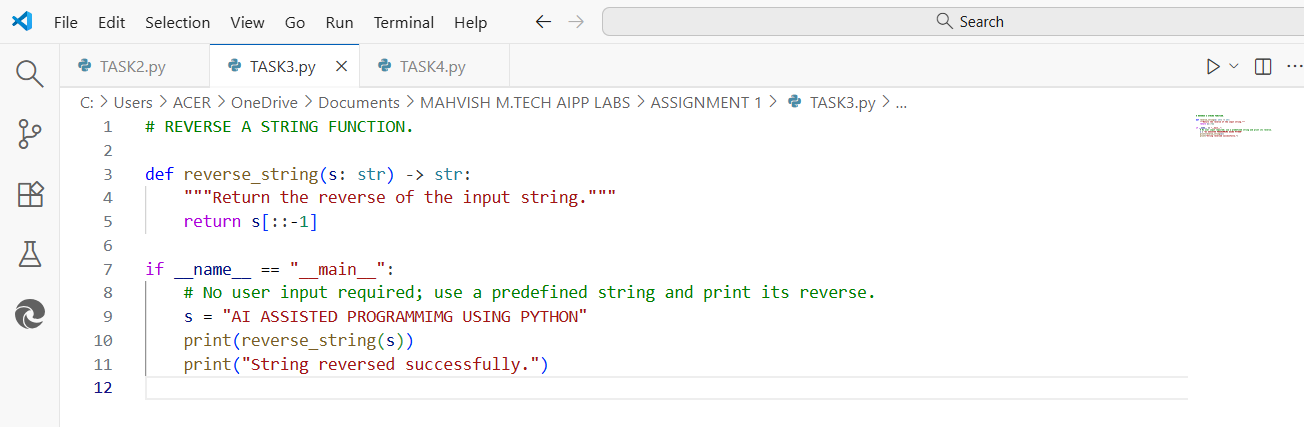
**Write a comment to REVERSE A STRING and use Copilot to generate the function.**

***PROMPTS:***

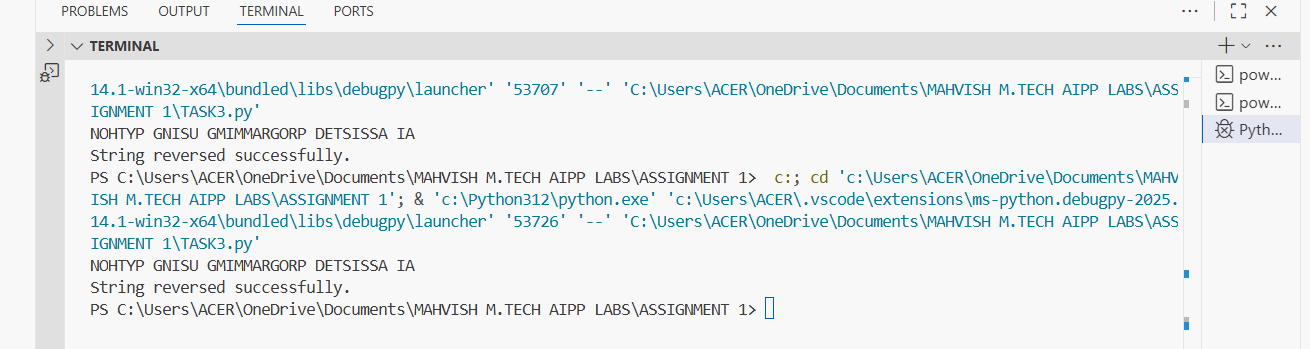
**1) Generate the function to REVERSE A STRING.**

**2) Automatically reverse the string without User Input.**

***CODE:***



***OUTPUT:***



**Task 4:**

**Generate both recursive and iterative versions of a FACTORIAL FUNCTION using comments.**

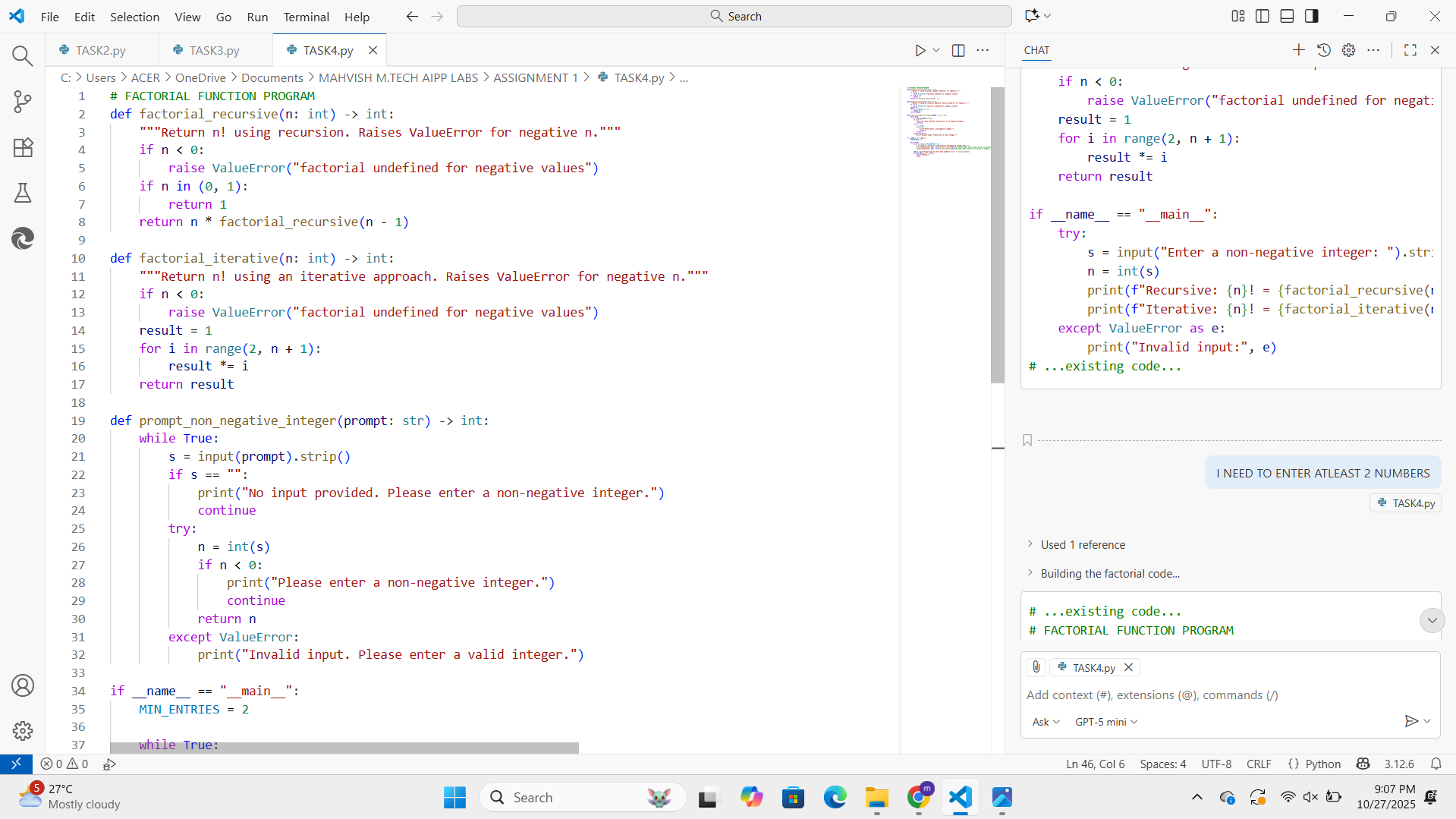
***PROMPTS:***

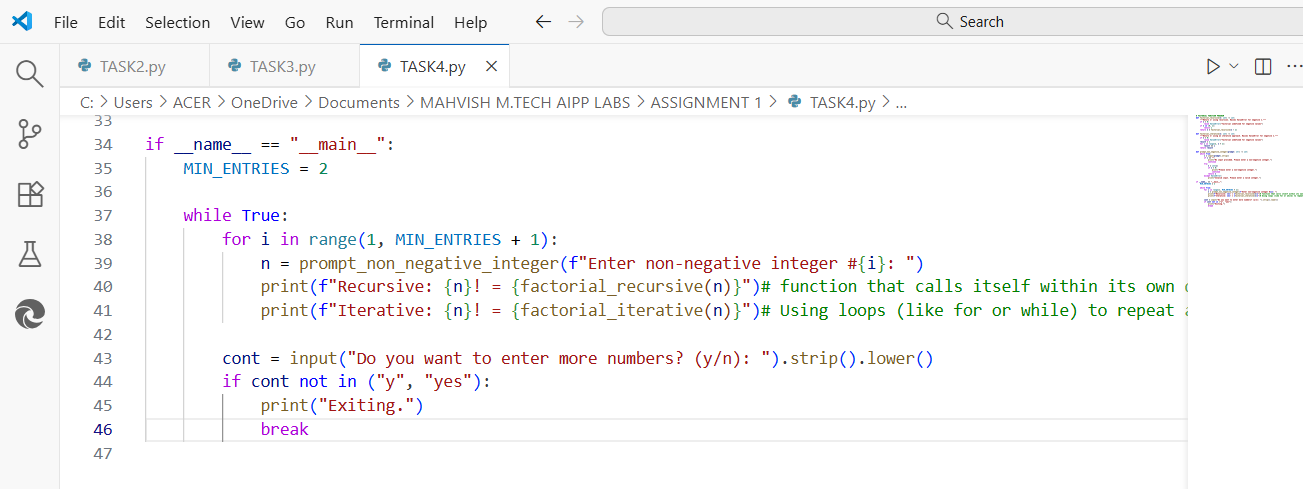
**1) Give Factorial Function Program**

**2) Update the code for both Recursive and Iterative functions.**

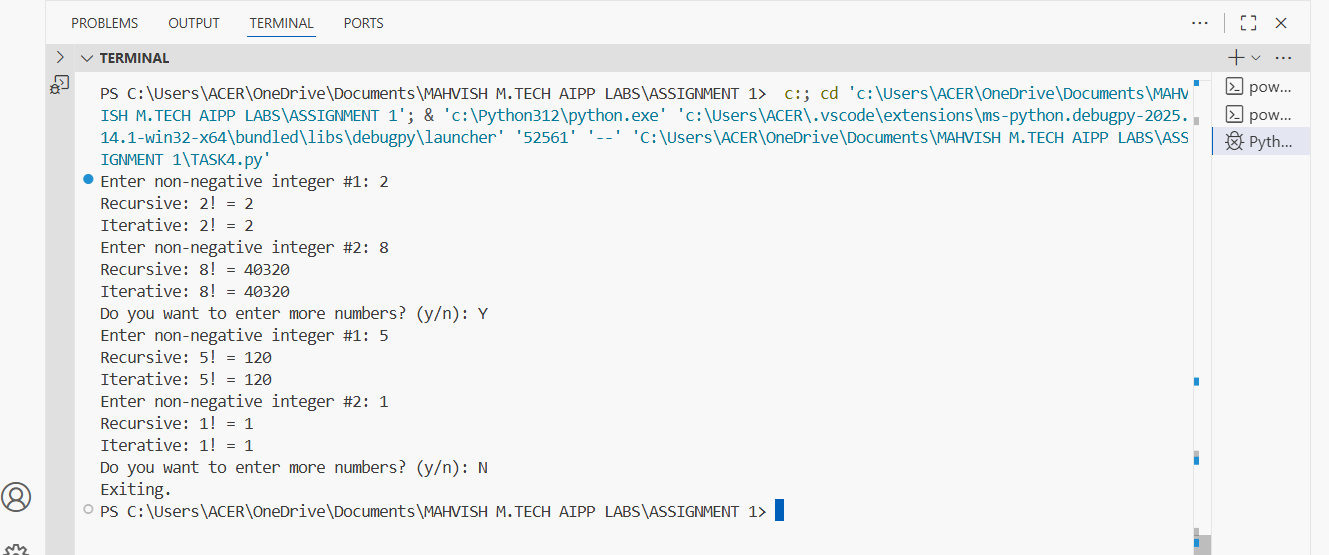
**3) I need to enter at least 2 numbers so update the code.**

***CODE:***





***OUTPUT:***



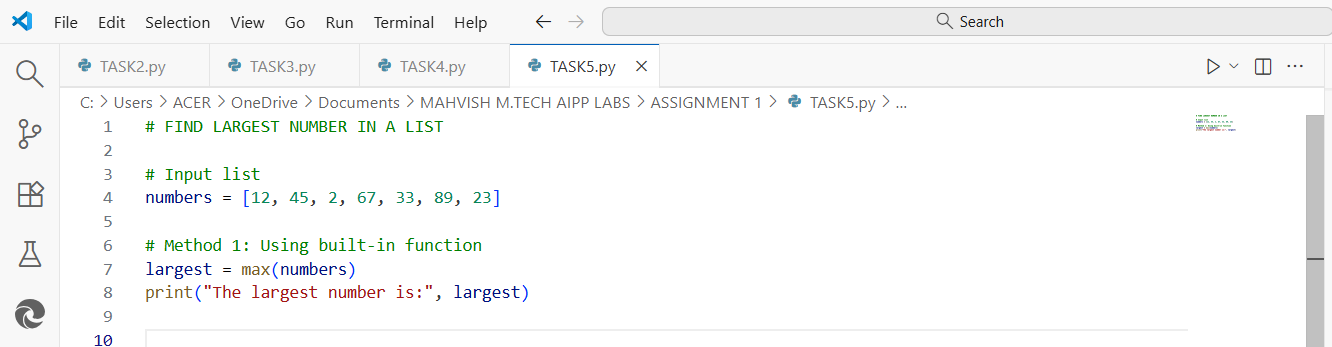
**Task 5:**

**Use Copilot to find the LARGEST NUMBER in a list. Assess code quality and efficiency.**

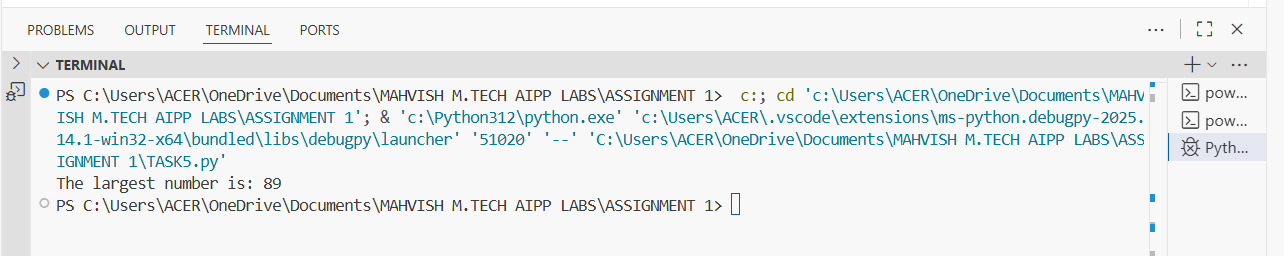
***PROMPTS:***

**1) Use max() function to find the Largest Number.**

***CODE:***



***OUTPUT:***



***COMMENTS:***

***# T****he function correctly returns the largest number from the given list.*

***# T****he Time complexity is O(n) which is efficient.*

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