**AI Assisted Problem Solving Using Python**

**Date: 28-10-2025**

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**Mtech – 1st Year**

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**Lab 2: Exploring Additional AI Coding Tools – Gemini (Colab) and Cursor AI**

**Task Description-1**

* Use Google Gemini in Colab to write a function that reads a CSV file and calculates mean, min, max.

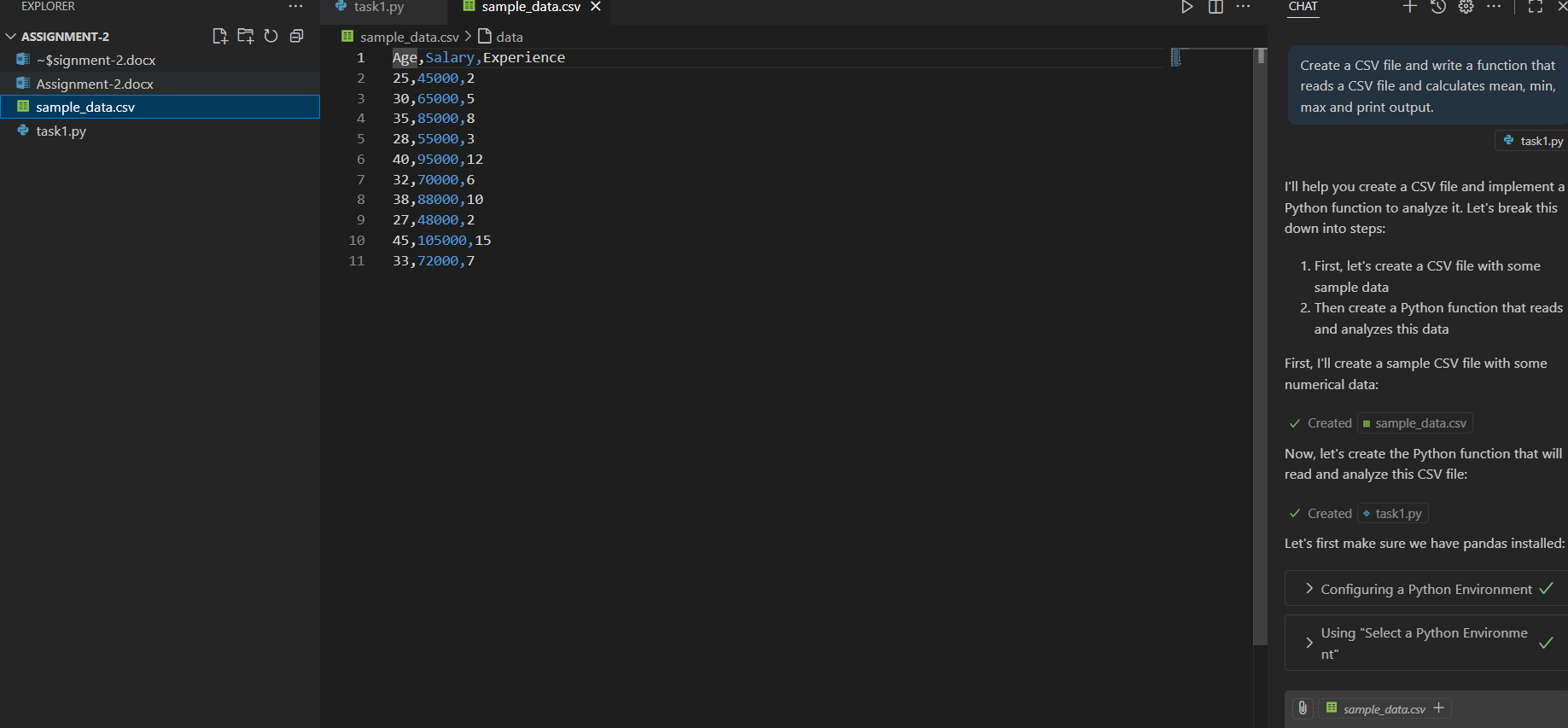
**Expected Output-1**

* Functional code with output and screenshot

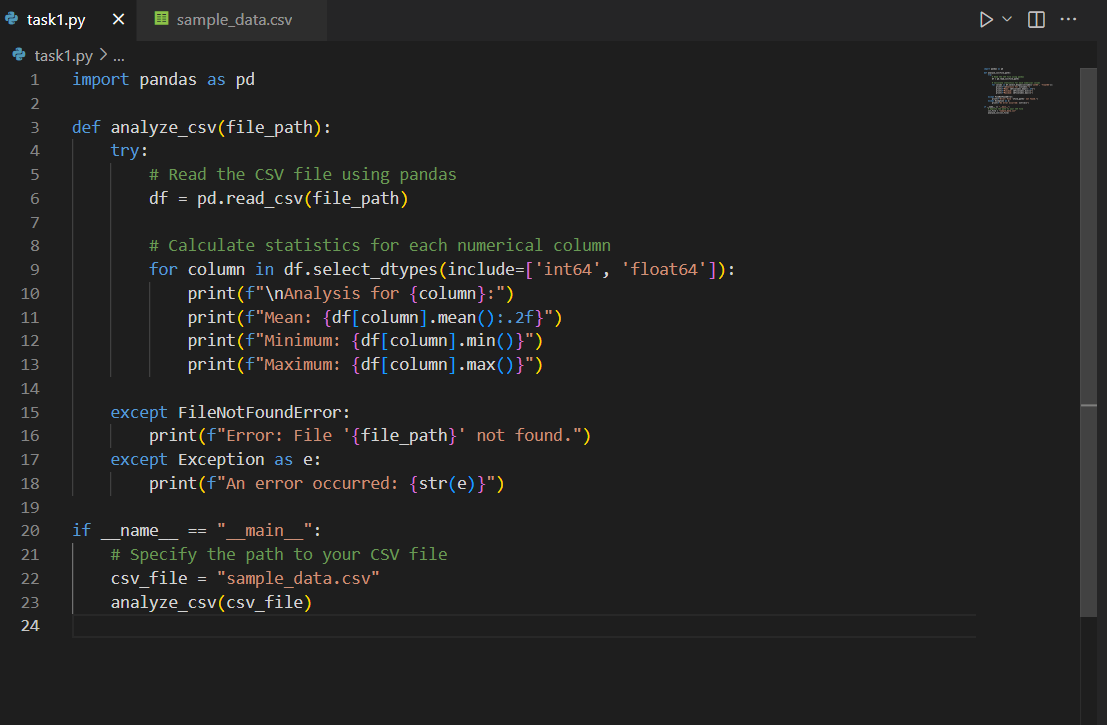
**Prompt**

Create a CSV file and write a function that reads a CSV file and calculates mean, min, max and print output.

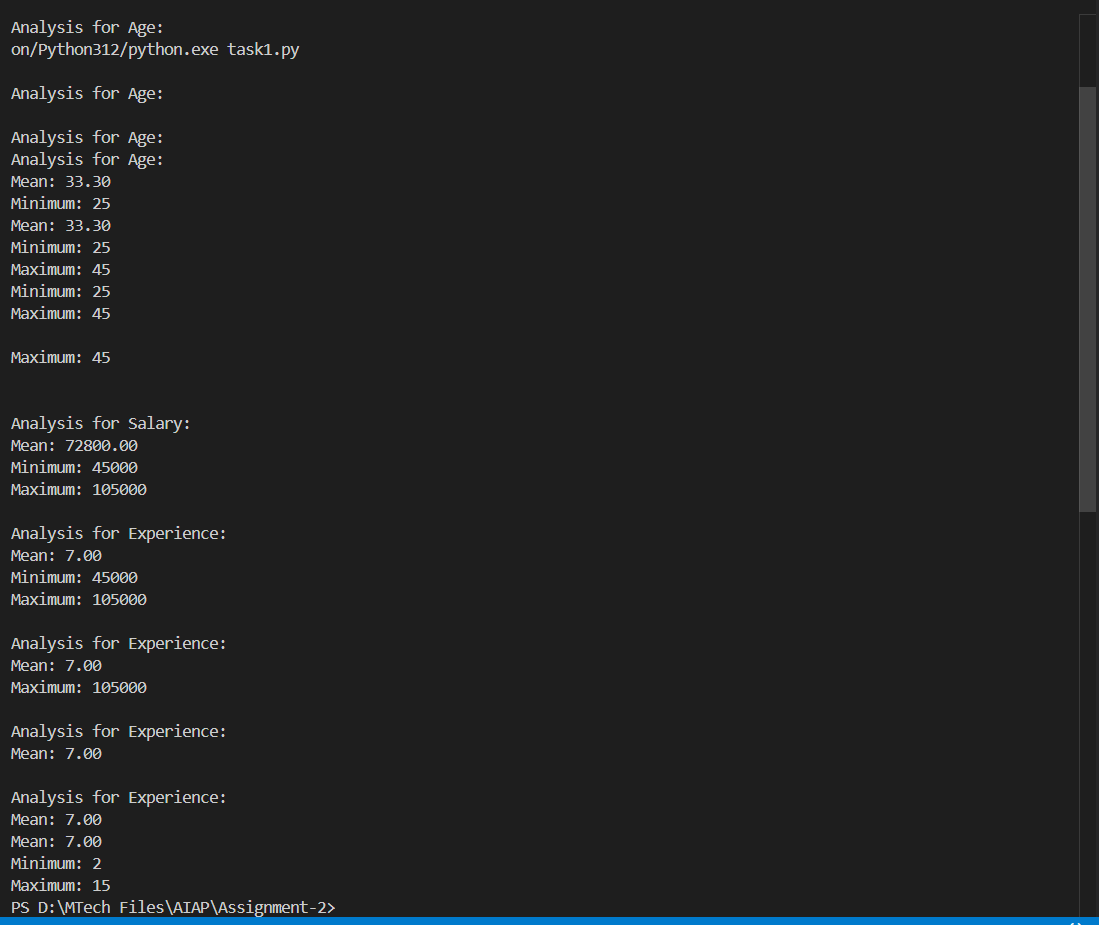
**CSV file**

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**Code:**

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**Output:**

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**Task Description-2**

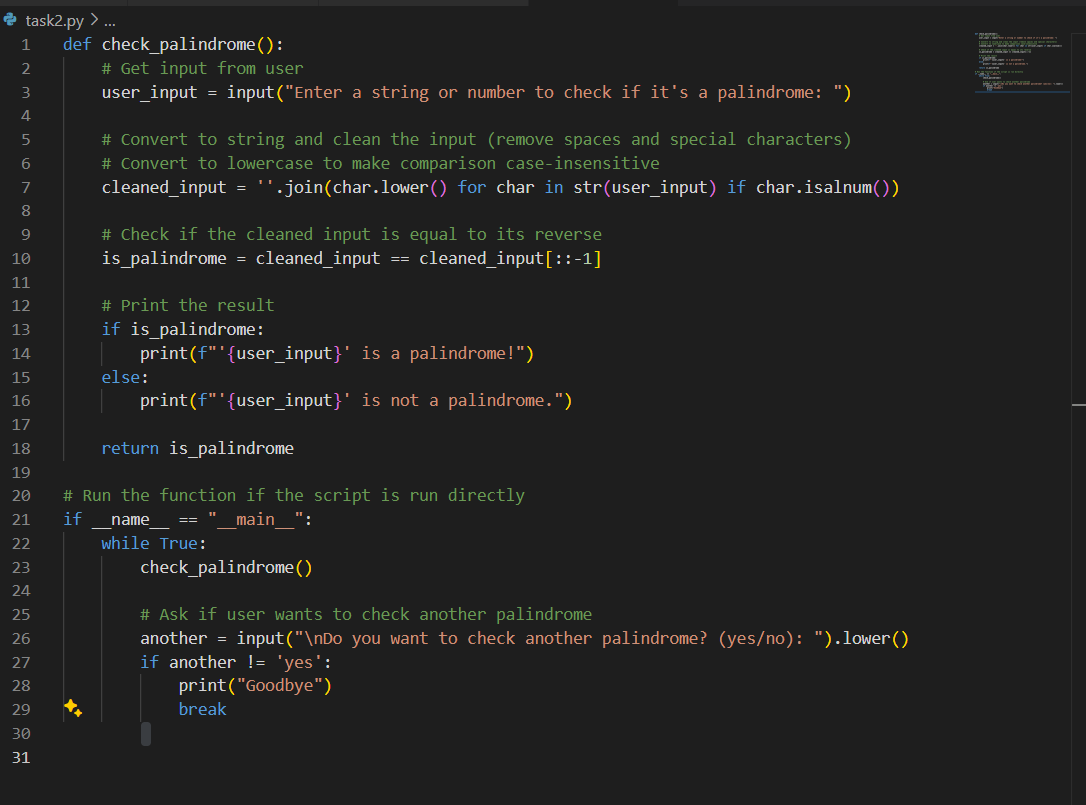
* Compare Gemini and Copilot outputs for a palindrome check function.

**Expected Output-2**

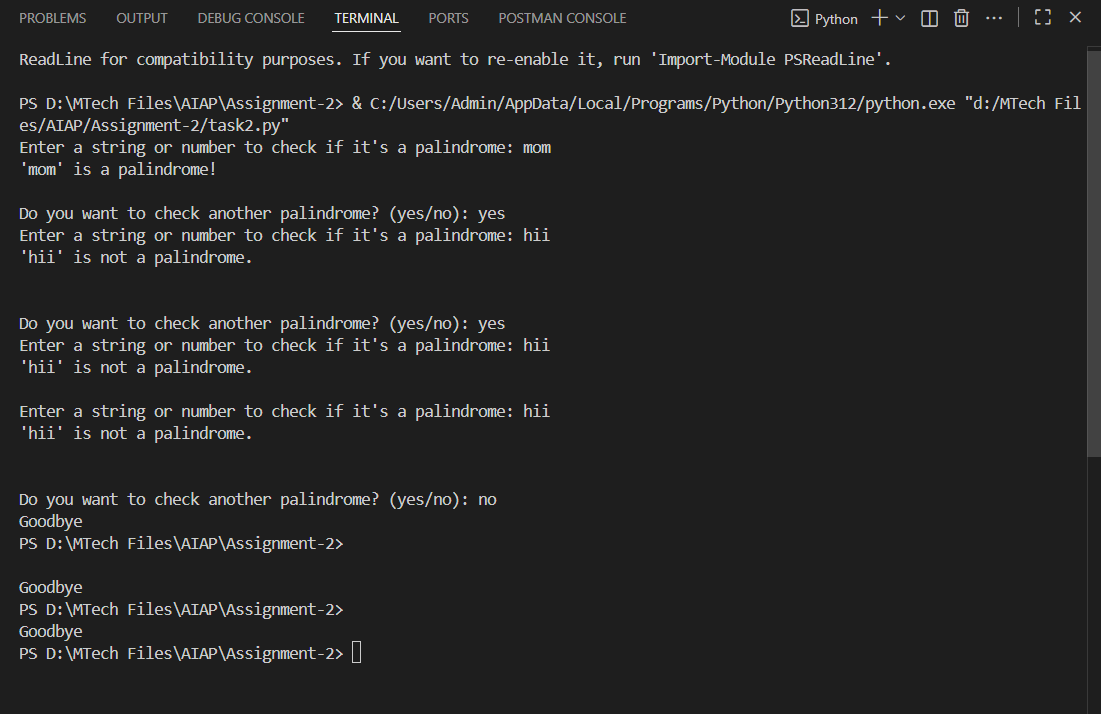
* Side-by-side comparison and observations

**Prompt**

Generate a python function to check palindrome function by taking user input manually.



**Output:**



**Task Description-3**

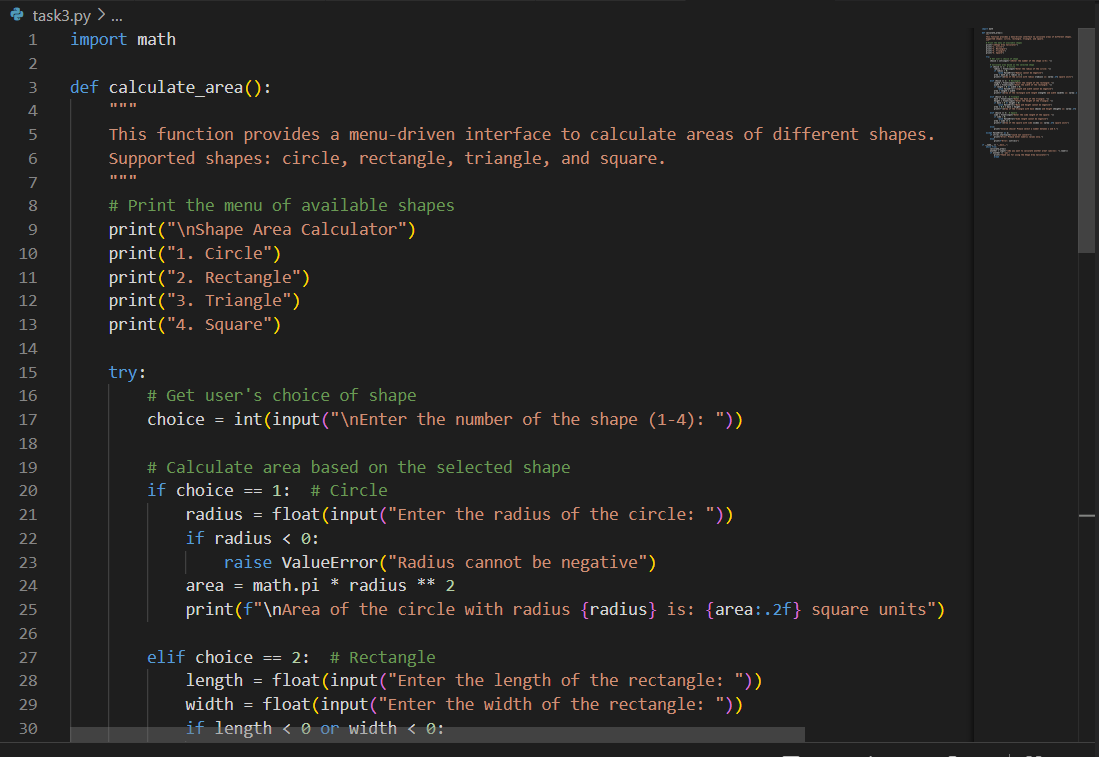
* Ask Gemini to explain a Python function (to calculate area of various shapes) line by line..

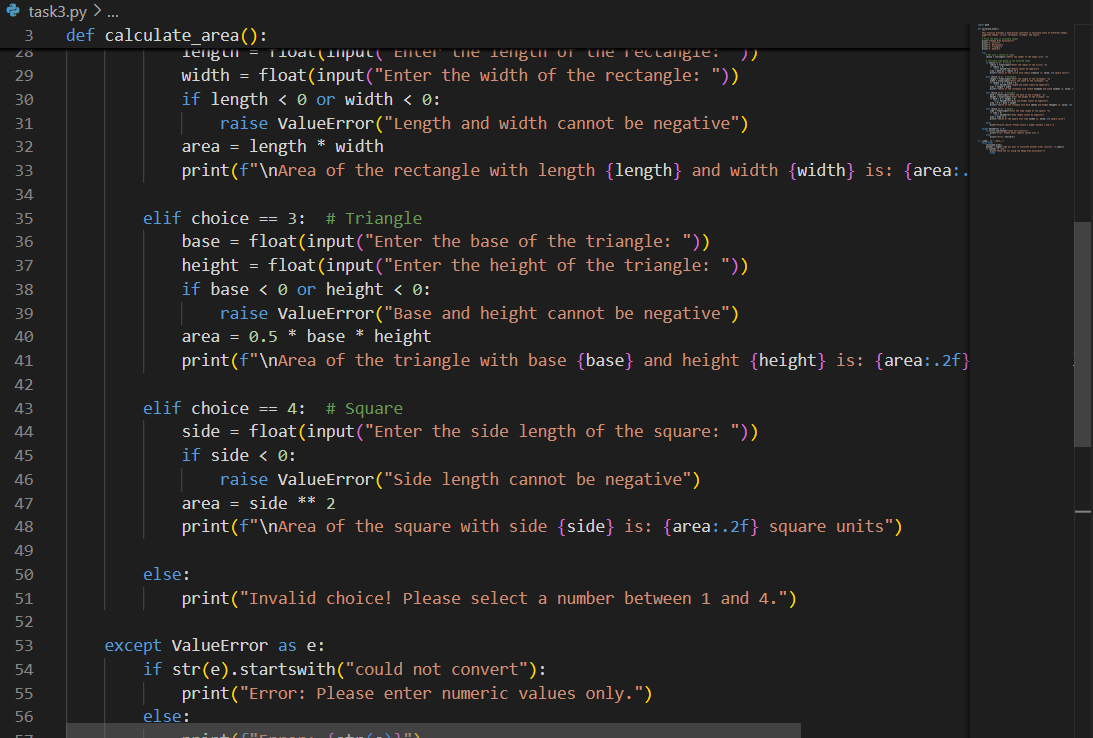
**Expected Output-3**

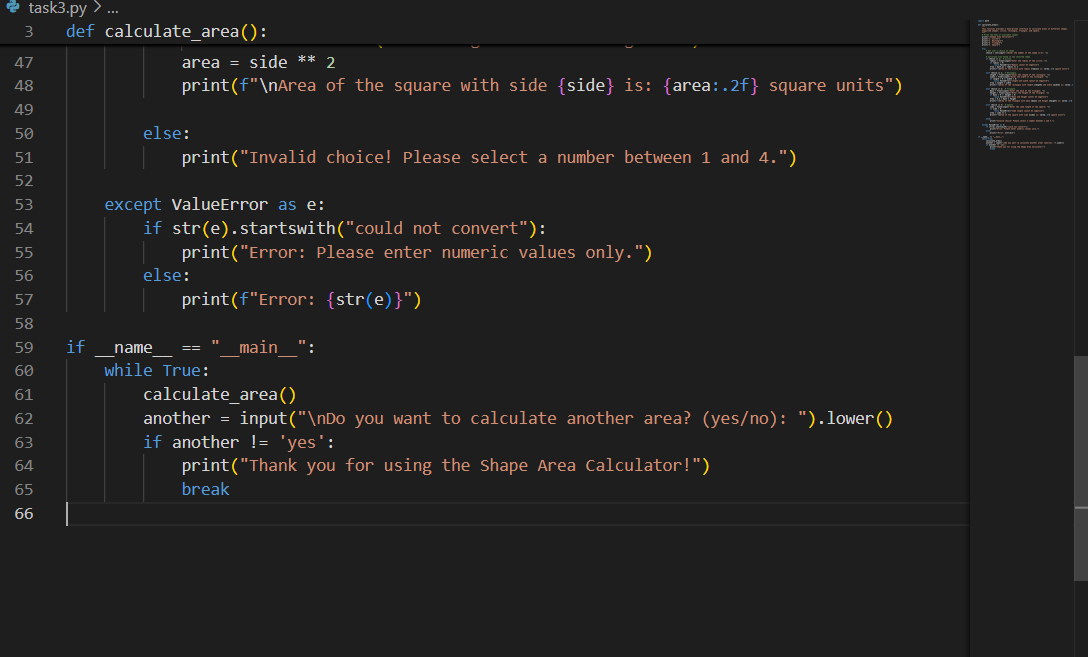
* Detailed explanation with code snippet

**Prompt**

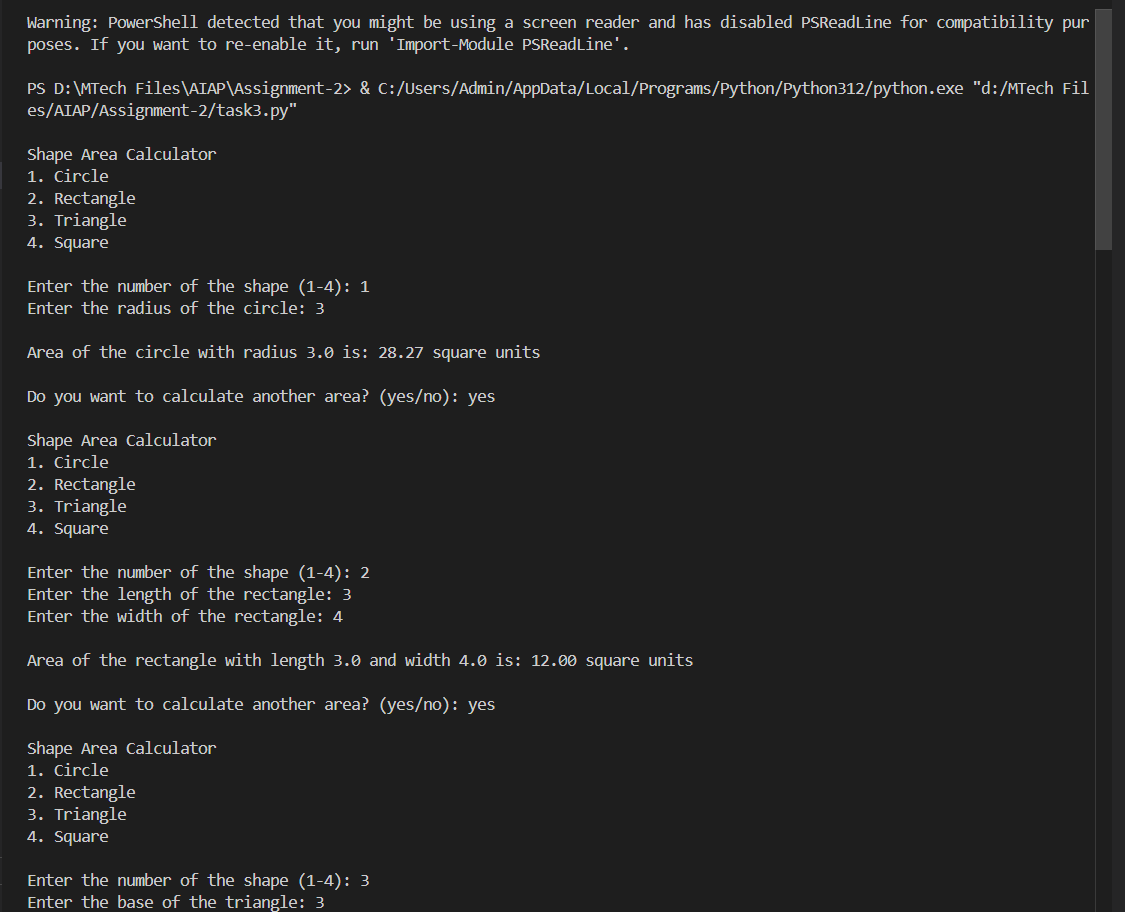
Write a Python function to calculate area of various shapes and explain line by line.

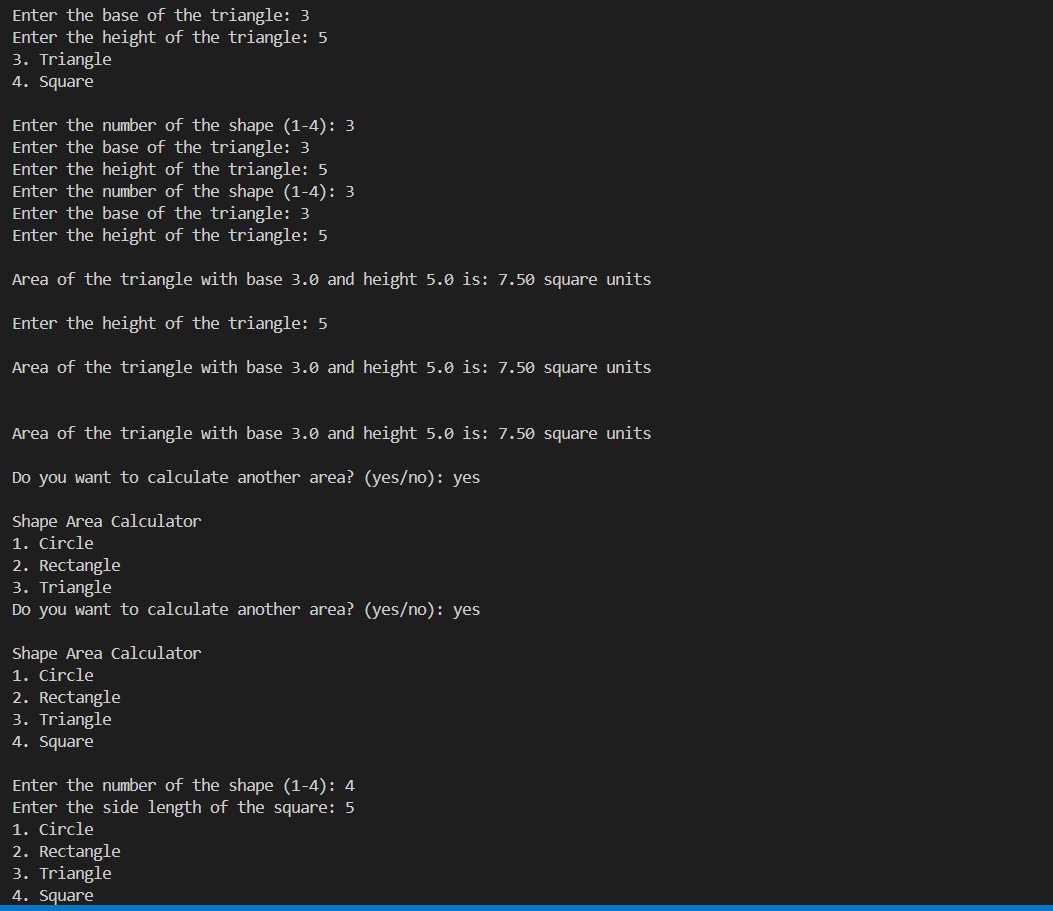
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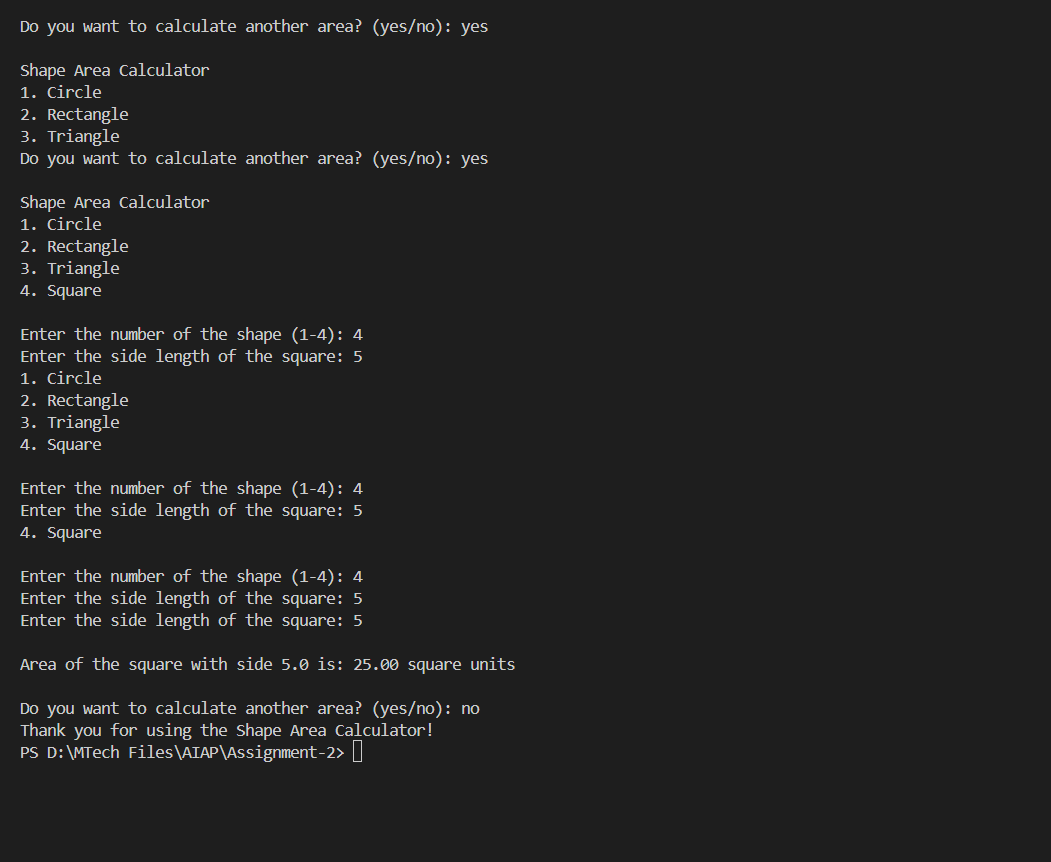
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**Output:**

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**Task Description-4**

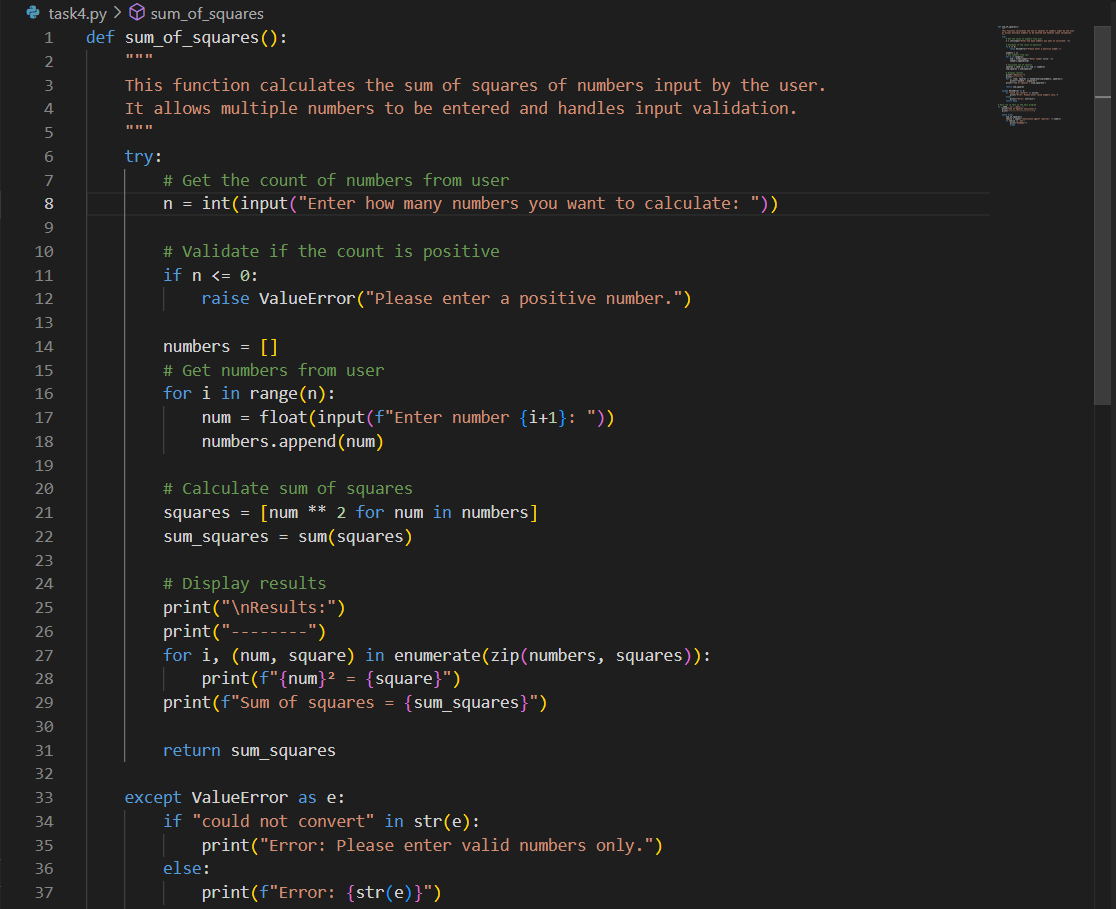
* Install and configure Cursor AI. Use it to generate a Python function (e.g., sum of squares).

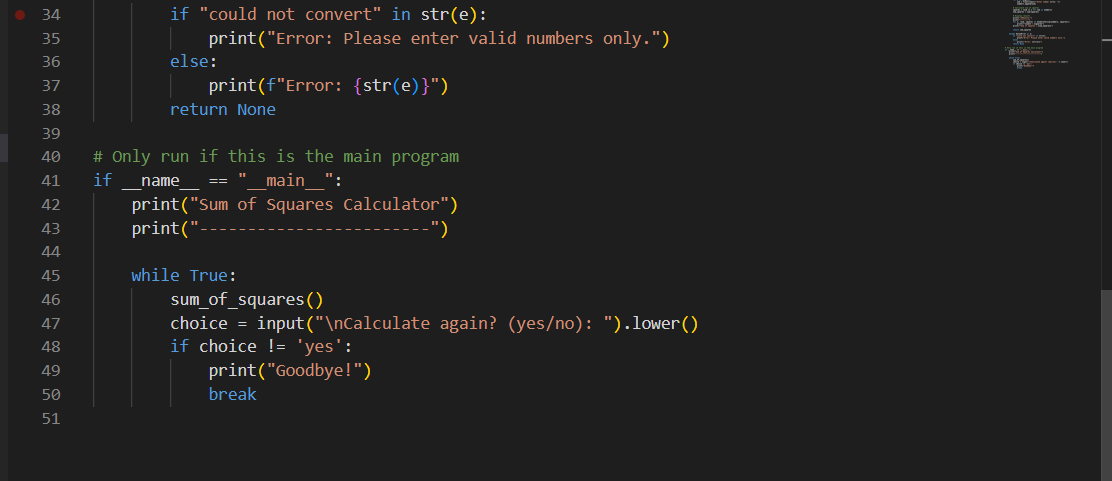
**Expected Output-4**

* Screenshots of working environments with few prompts to generate python code

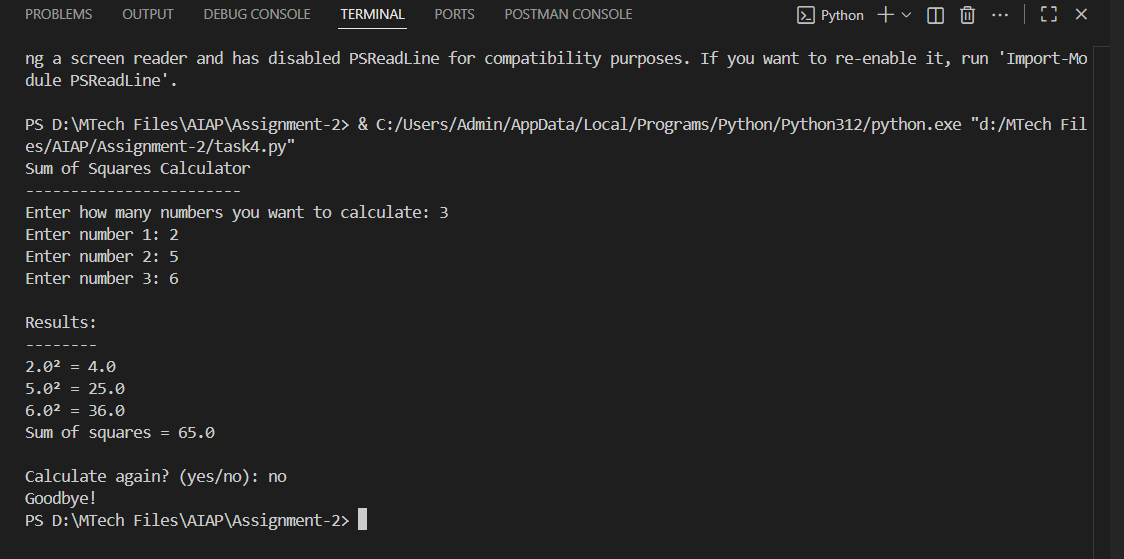
**Prompt**

Generate a Python function sum of squares by taking user input manually.

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**Output:**

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**Task Description-5**

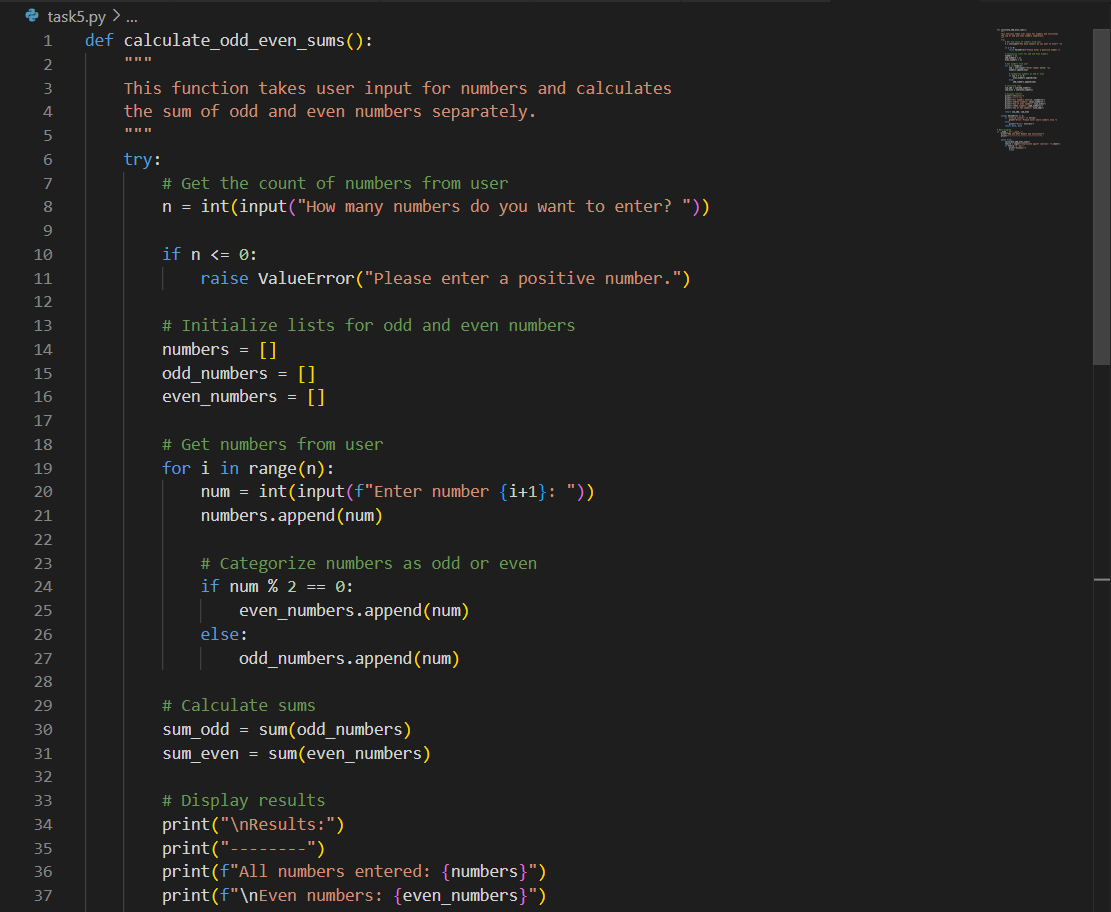
* Student need to write code to calculate sum of odd number and even numbers in the list

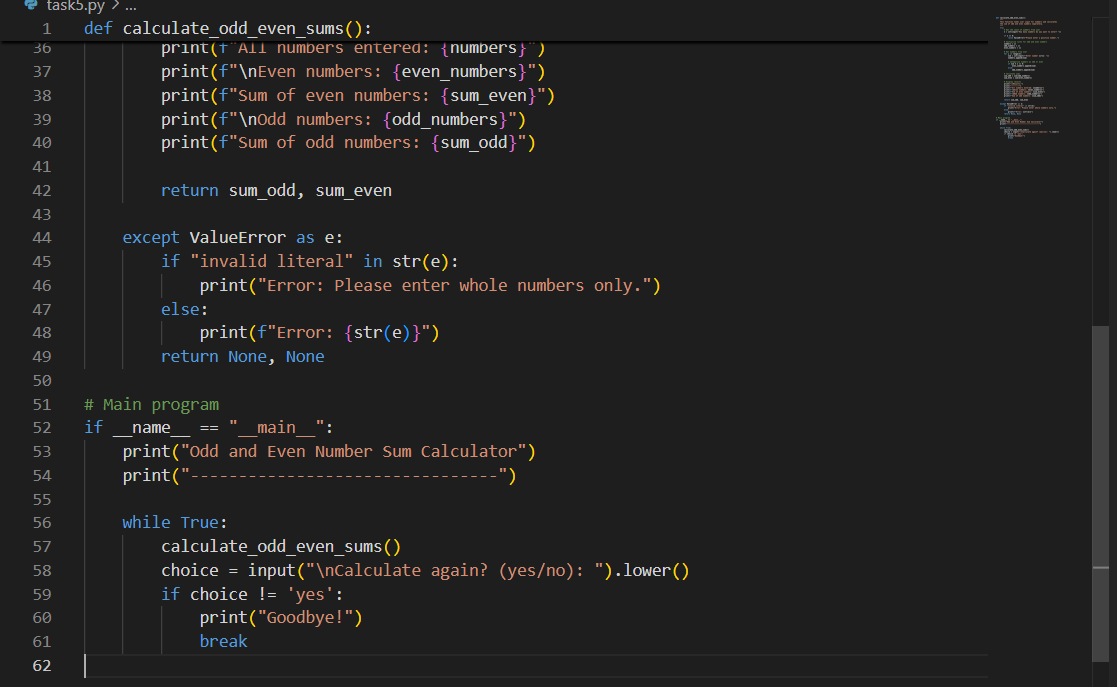
**Expected Output-5**

* Refactored code written by student with improved logic

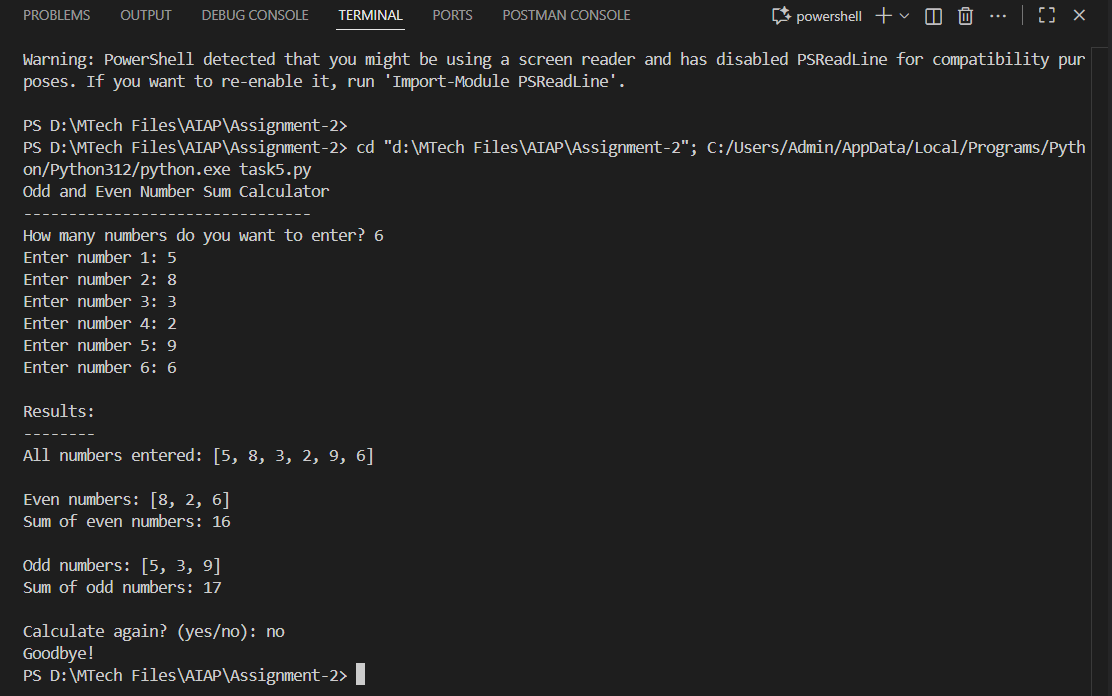
**Prompt-1**

write code to calculate sum of odd number and even numbers in the list by taking user input manually.

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**Output**

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