AI ASSISTANT CODING

ASSIGNMENT-02

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Batch: 20

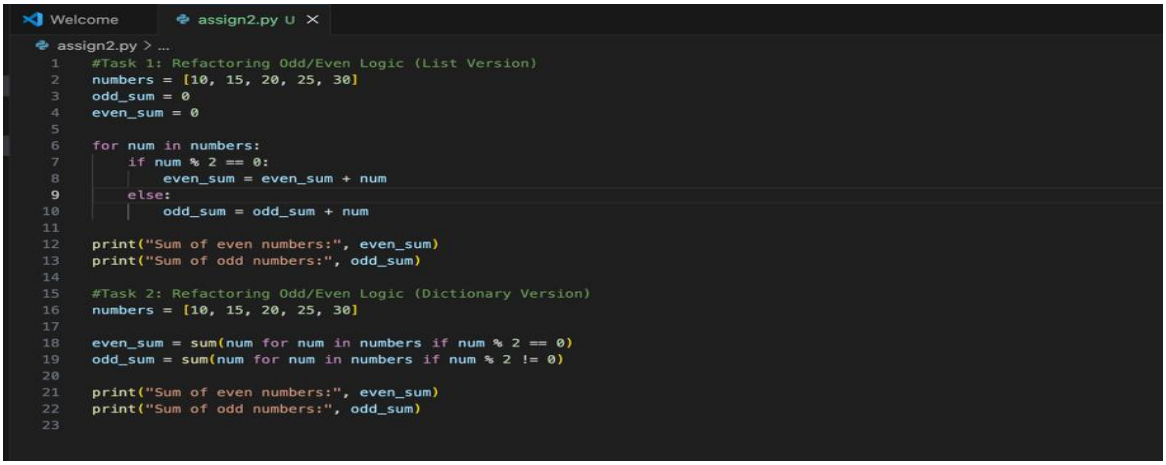
Task 1: Task 1: Refactoring Odd/Even Logic (List Version) Write a program to calculate the sum of odd and even numbers in a list, then refactor it using AI.

Scenario

You are improving legacy code.

Prompt: calculate the sum of odd and even numbers and refactor it using AI.

Code:



Result:

Observation:

The refactored version removes manual looping and conditional accumulation, making the code shorter, more readable, and efficient while producing the same output.

Task 2: Area Calculation Explanation. Ask Gemini to explain a function that calculates the area of different shapes.

Scenario

You are onboarding a junior developer.

Prompt: give a function that calculates the area of different shapes

Code:

Result:

Observation:

Gemini effectively explains both the logic and mathematical reasoning in a clear and structured way, making it suitable for junior developers and beginners.

Task 3: Prompt Sensitivity Experiment Use Cursor AI with different prompts for the same problem and observe code changes.

Scenario

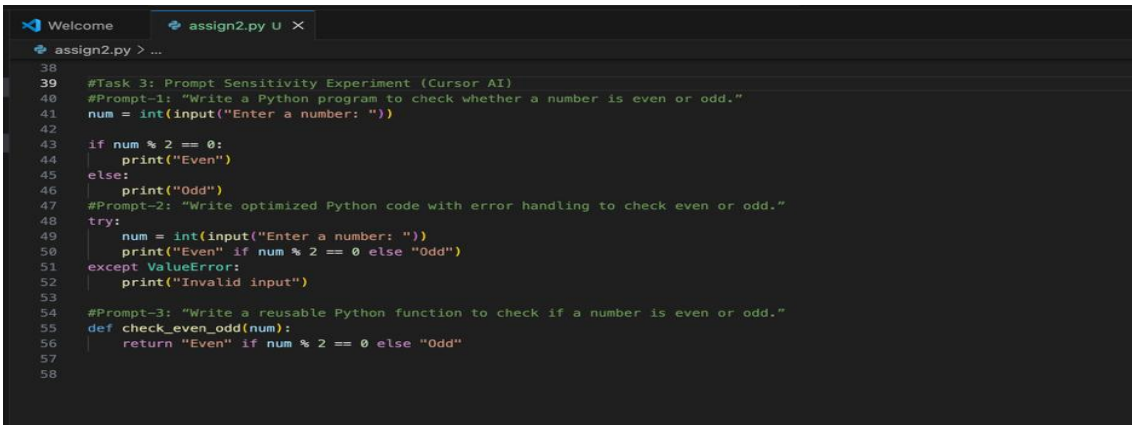
You are testing how AI responds to different prompts.

Prompt-1: Write a Python program to check whether a number is even or odd

Prompt-2: Write optimized Python code with error handling to check even or odd

Prompt-3: Write a reusable Python function to check if a number is even or odd

Code:



Result: