AI ASSISTED CODING

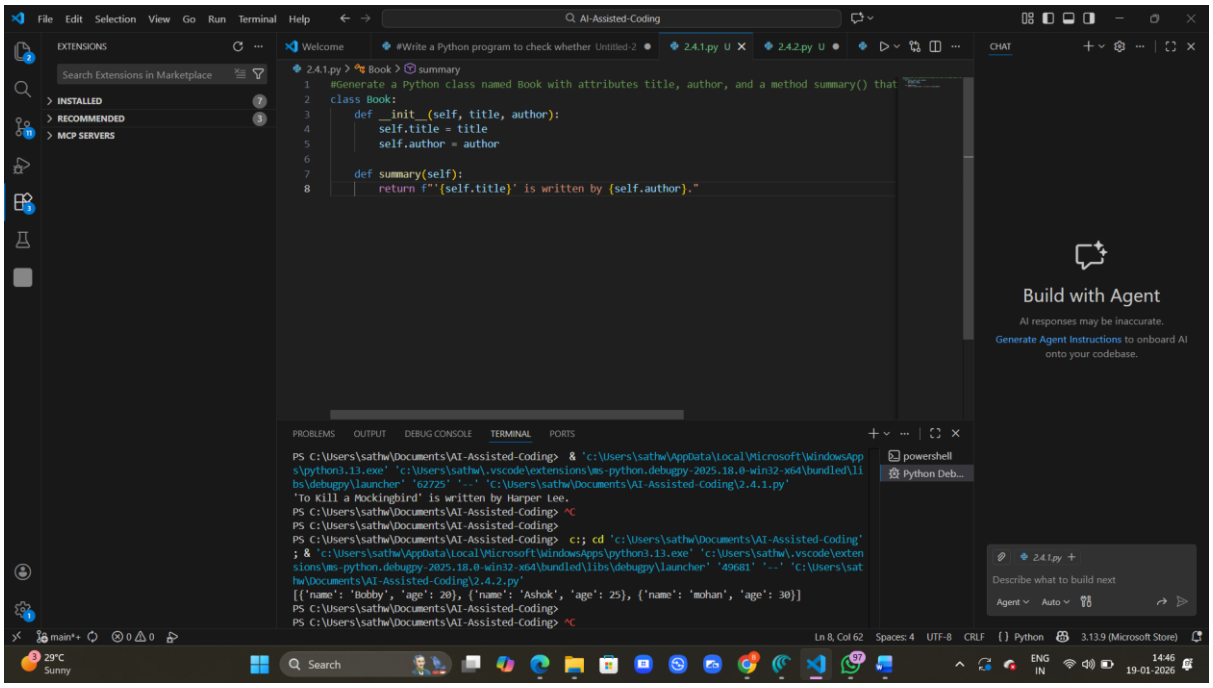
ASSIGNMENT – 1

Task 1: Use Cursor AI to generate a Python class Book with attributes title, author,

and a summary () method.

Prompt : “Generate a Python class named Book with attributes title, author, and a method summary() that returns a formatted string with the title and author.”

Code and output :

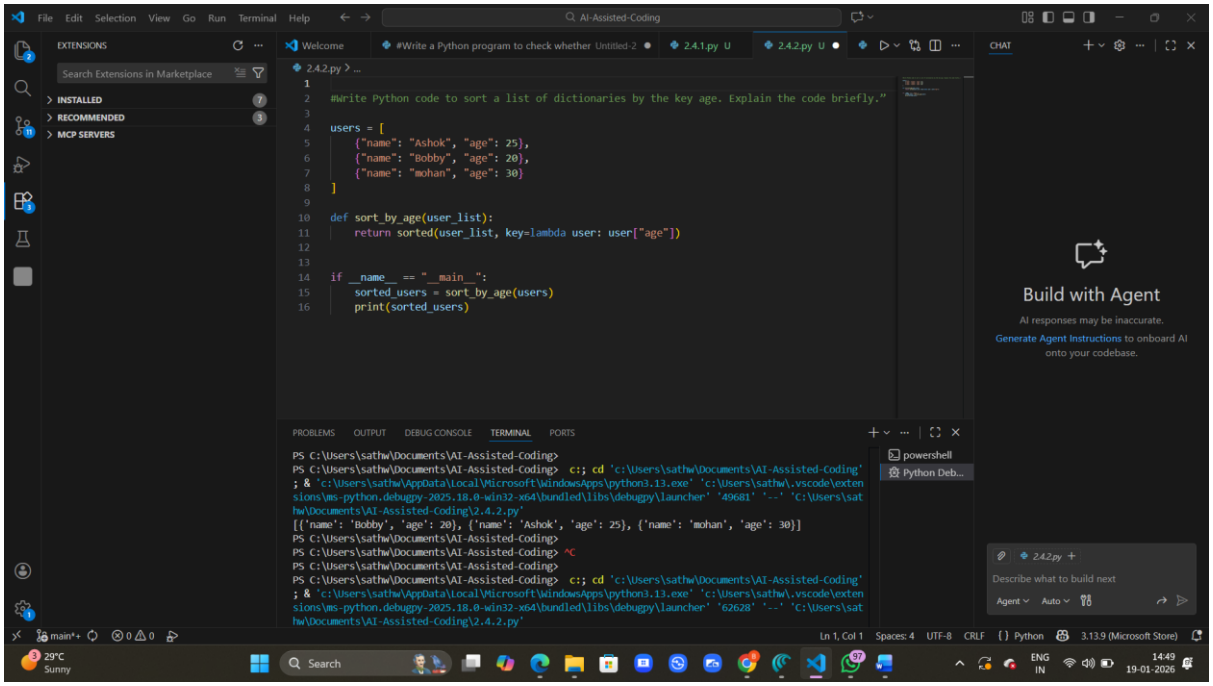


Task 2: Use Gemini and Cursor AI to generate code that sorts a list of dictionaries

by a key.

Prompt: Write Python code to sort a list of dictionaries by the key age. Explain the code briefly.

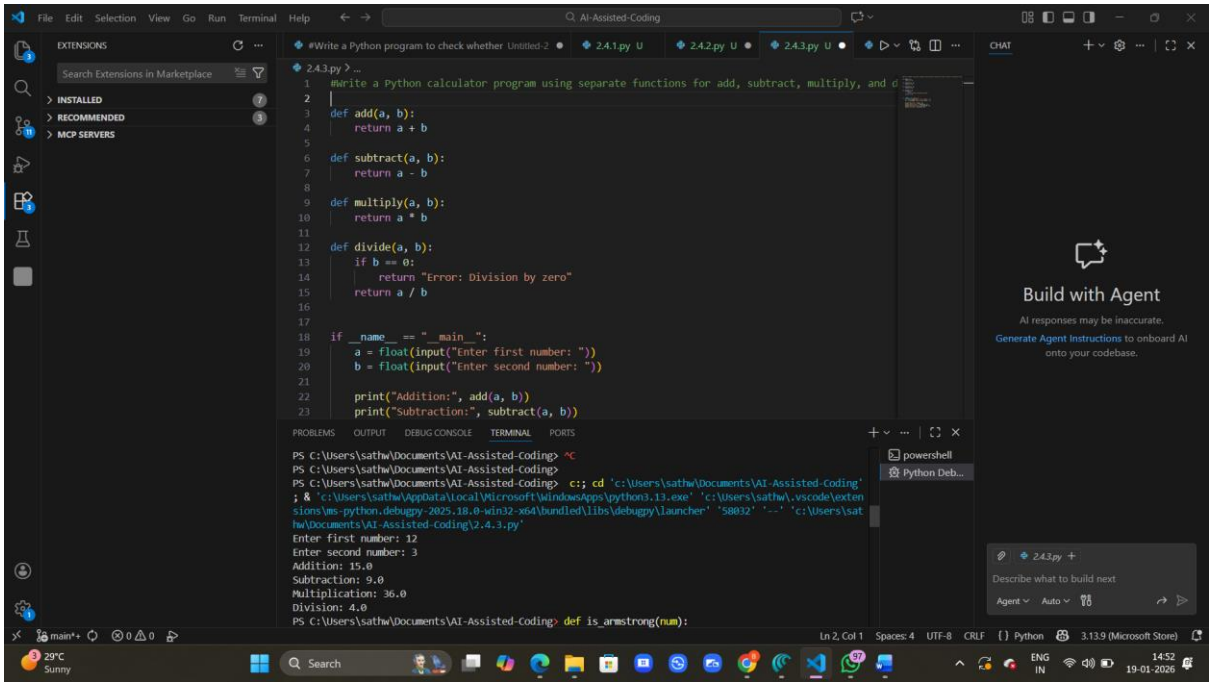
Code and output :



Task 3: Ask Gemini to generate a calculator using functions and explain how it works.

Prompt: Write a Python calculator program using separate functions for add, subtract, multiply, and divide. Then explain how the program works step by step.

Code and Output:



Task 4: Generate an Armstrong number program using Gemini, then improve it

using Cursor AI.

Prompt: Write a Python program to check whether a given number is an Armstrong number. Use basic Python constructs and explain briefly.

Code and Input: