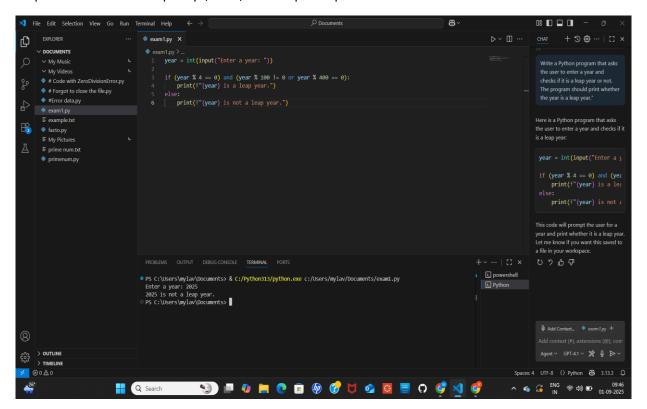


Q1. Code Generation with Conditions (5M)

Task: Ask AI to generate a Python program that checks whether a given year is a Leap Year or not.

Requirement: Submit the prompt, code, and sample output.



PROMPT:

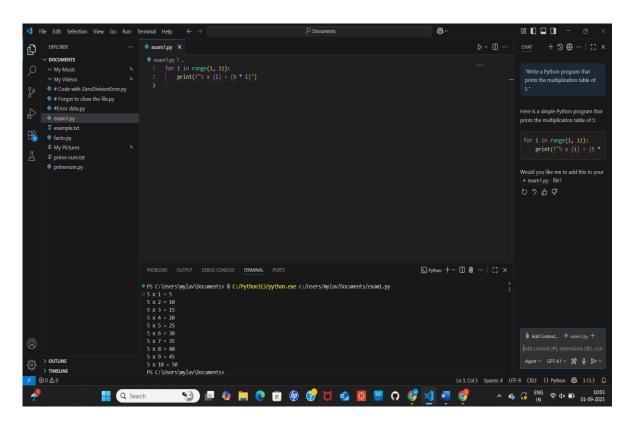
Write a python program that asks the user to enter a year and check if it is a leap year or not. The program should print wheather the year given by user is leap or not

Q2. Multi-Stage AI Prompting (5M)

Task: First, prompt AI to generate a Python program for multiplication table of 5.

Then, re-prompt AI to make it dynamic (take number from user input).

Requirement: Submit both versions and explain how re-prompting improved the solution.



1st prompt:

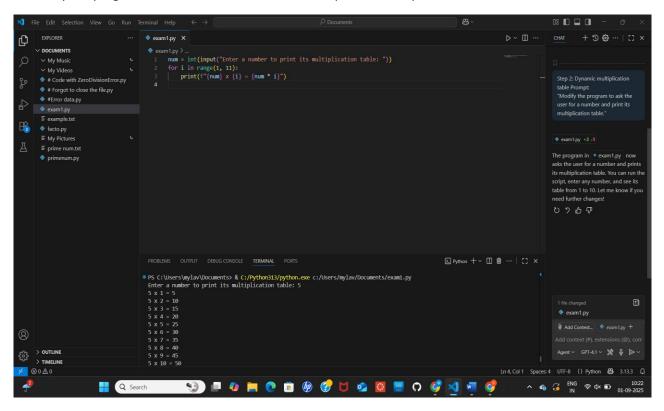
Step 1: Static multiplication table Prompt:

"Write a Python program that prints the multiplication table of 5."

2nd prompt:

Step 2: Dynamic multiplication table Prompt:

"Modify the program to ask the user for a number and print its multiplication table."



EXPLANATION OF RE-PROMPTING:

Re-prompting improved the solution by making the program flexible. The first version only prints the table for 5, while the second version allows the user to choose any number, making it more useful and interactive.