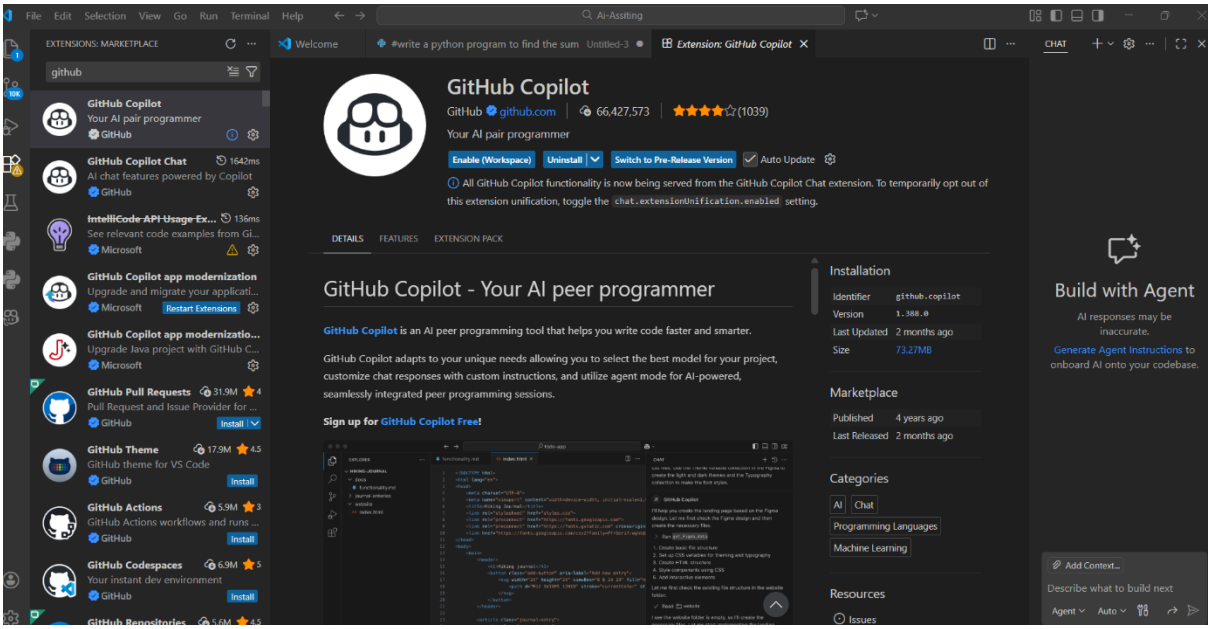
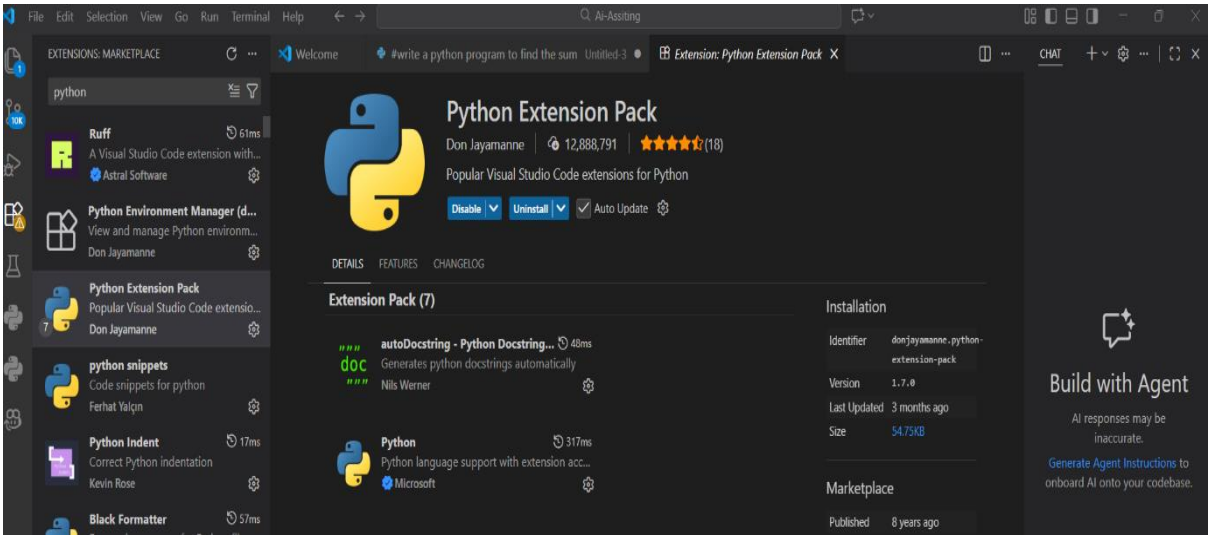
R Akshay
Lab Assignment - 1.3

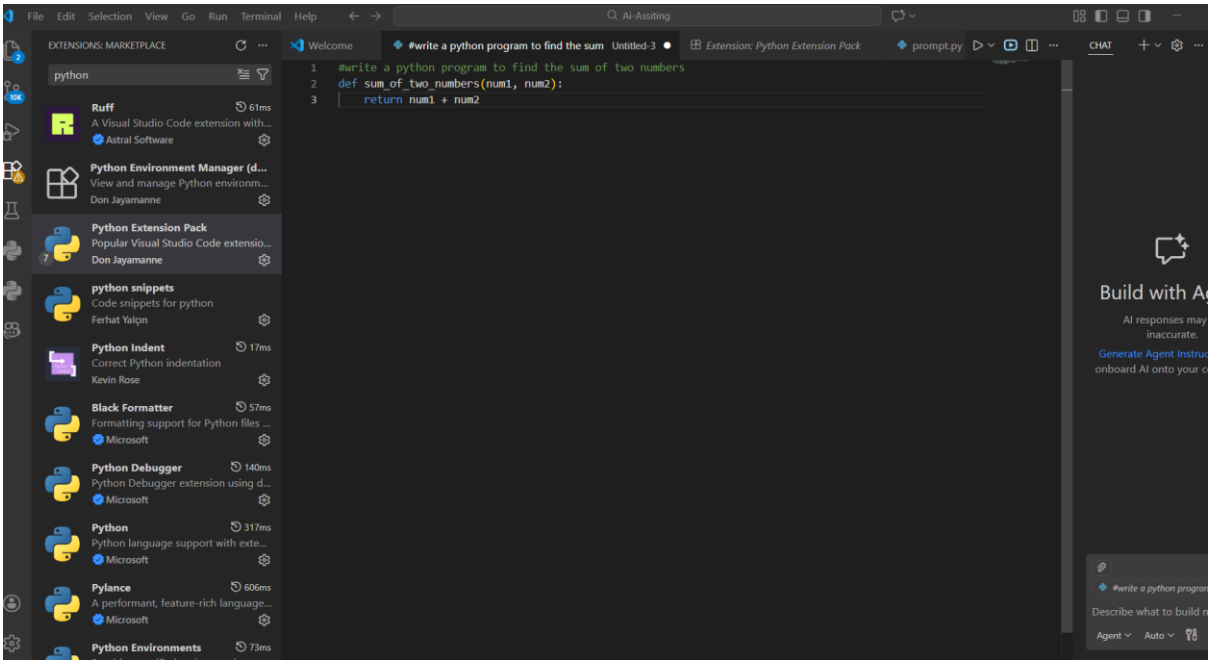
- Downloaded the GitHub Copilot extension in vscode



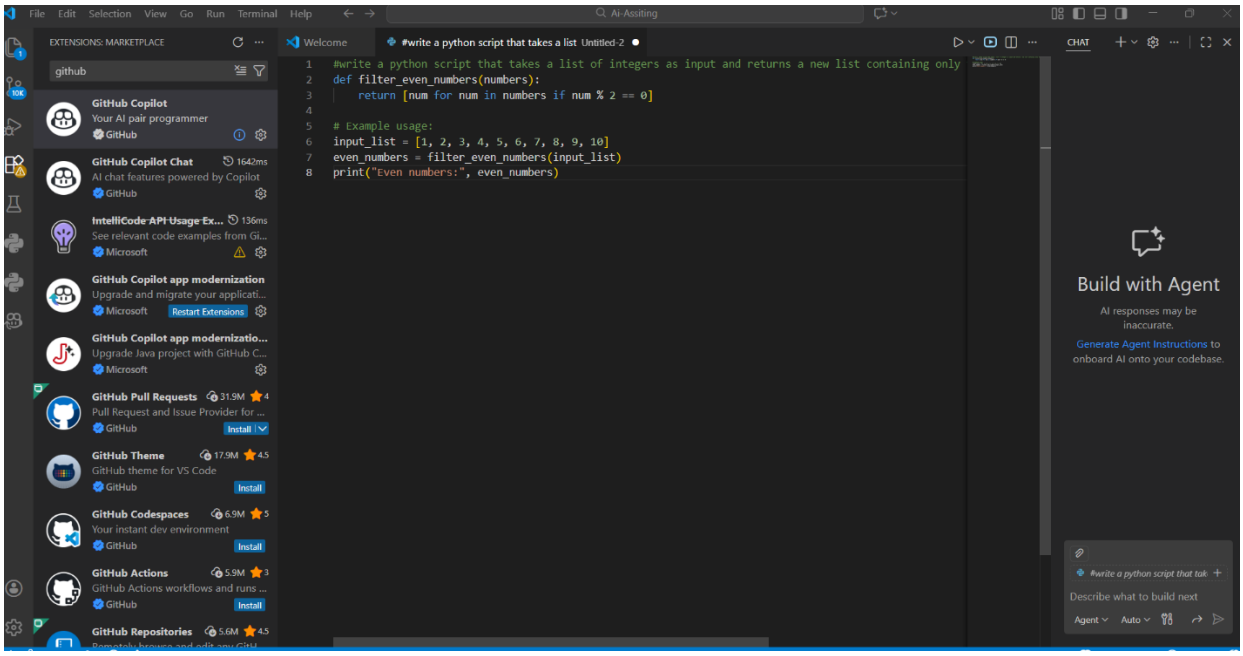
- Downloaded the Python Extension pack in vscode



- Implementation of code with the extension pack



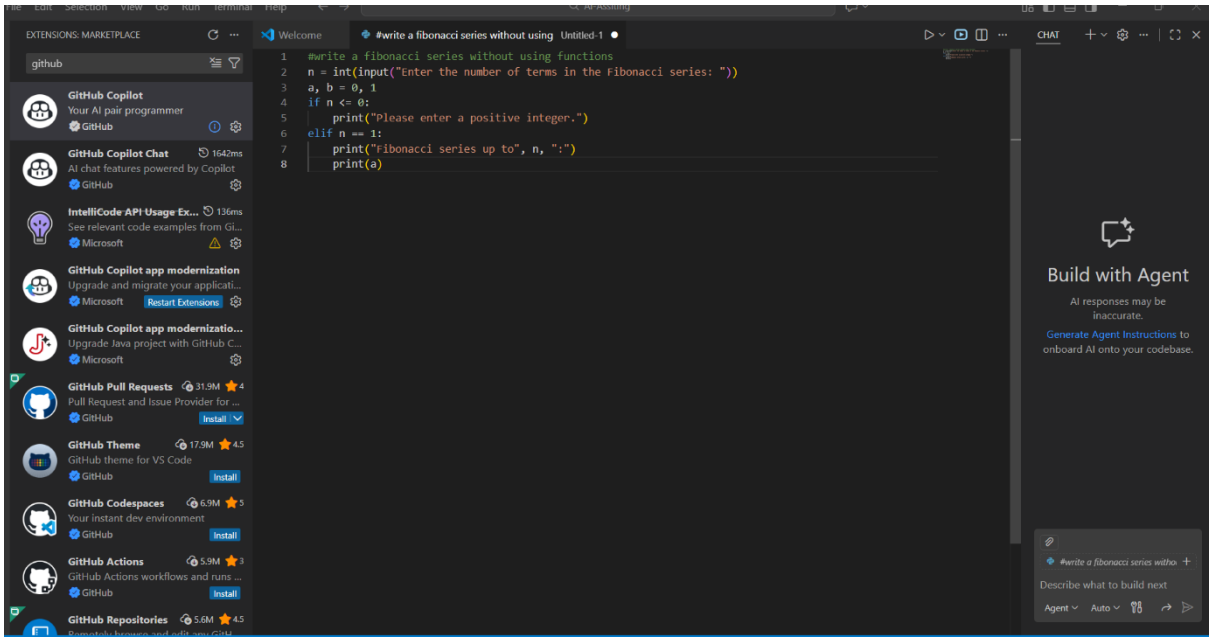
- Implementation of code using github copilot extension



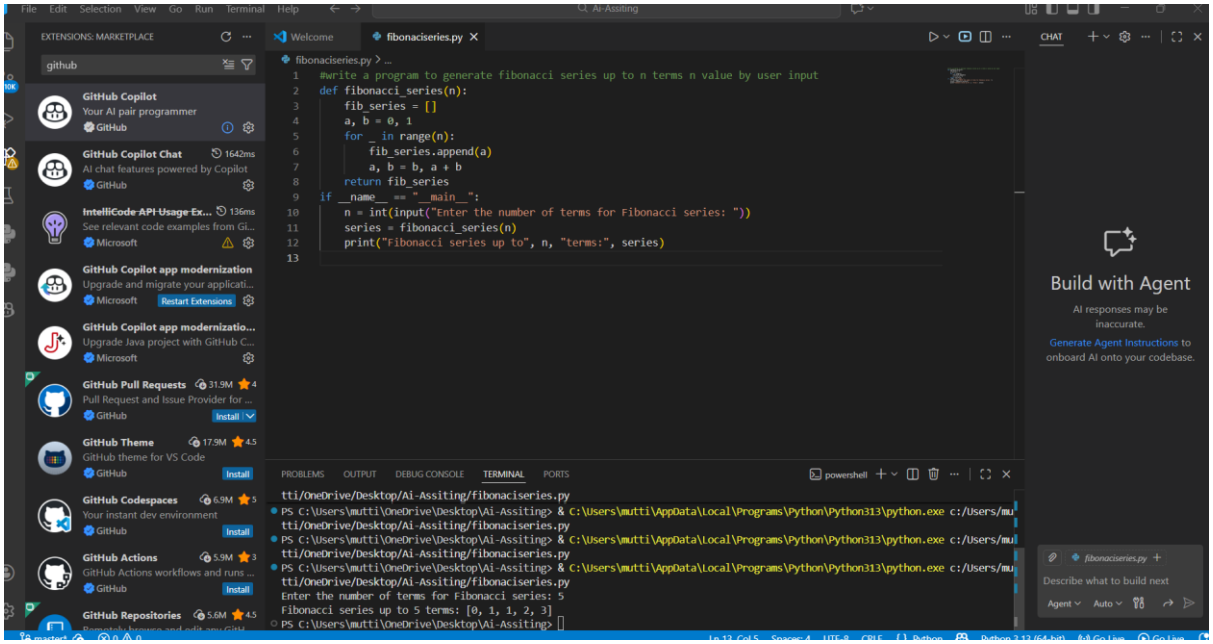
- You are asked to write a quick numerical sequence generator for a learning platform prototype.

Fibonacci series 5 steps

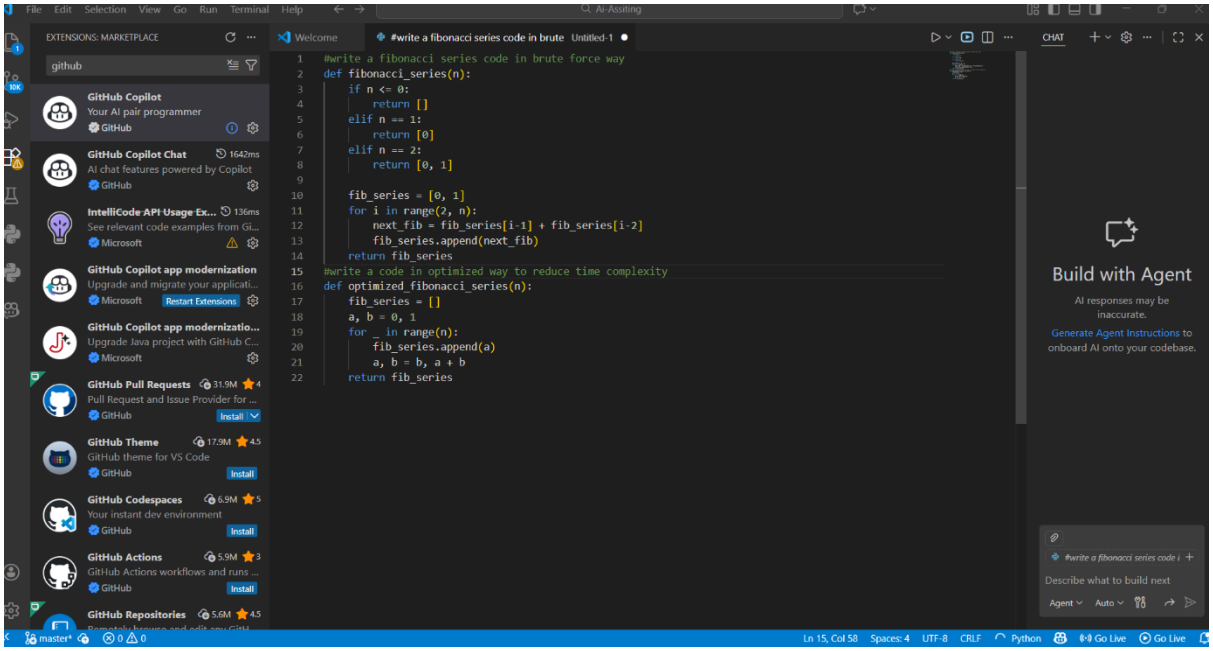
Task 1: AI-Generated Logic Without Modularization (Fibonacci Sequence Without Functions)



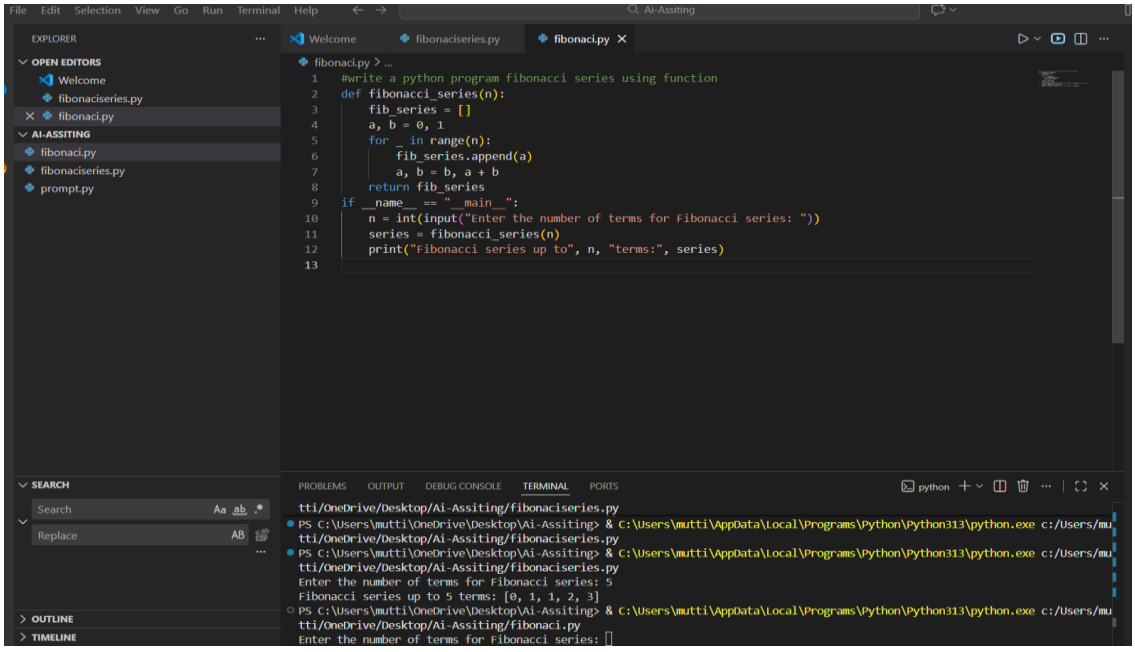
#output for the code of fibonacci series with using functions



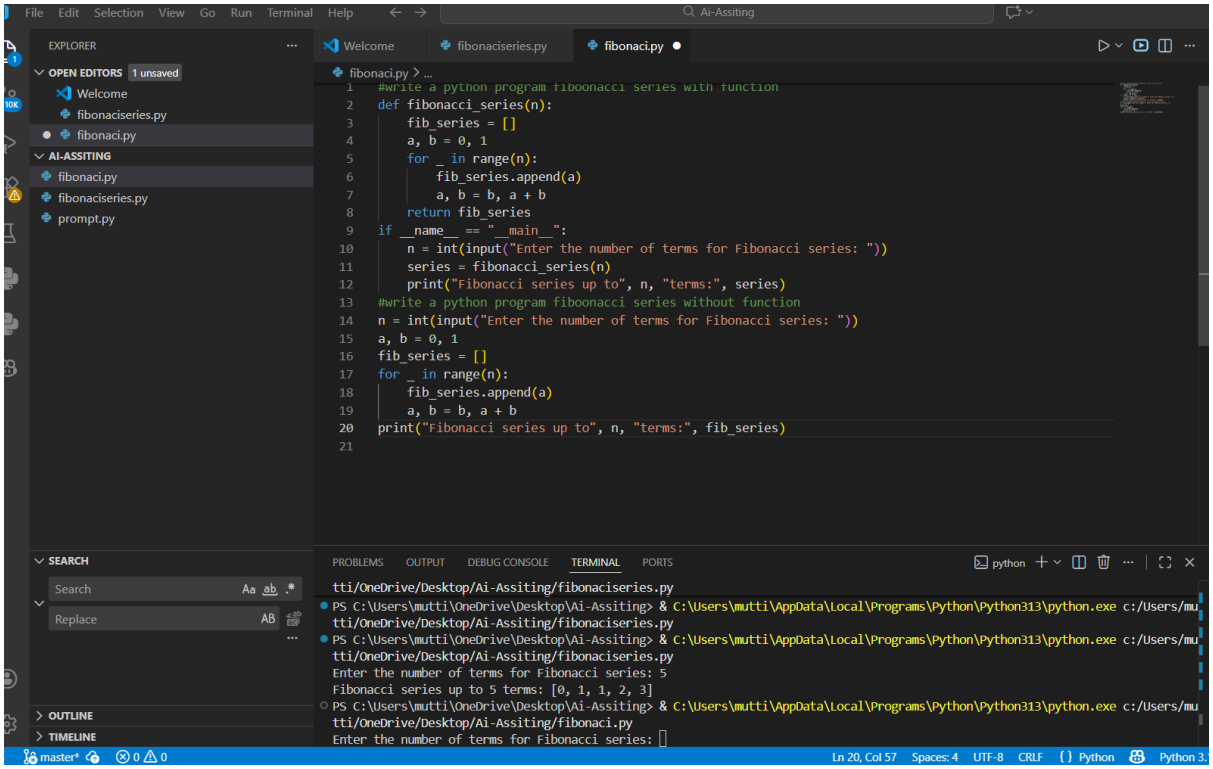
Task 2: AI Code Optimization & Cleanup (Improving Efficiency)



Task 3: Modular Design Using AI Assistance (Fibonacci Using Functions)



Task 4: Comparative Analysis – Procedural vs Modular Fibonacci Code



Task 5: AI-Generated Iterative vs Recursive Fibonacci Approaches (Different Algorithmic Approaches for Fibonacci Series)