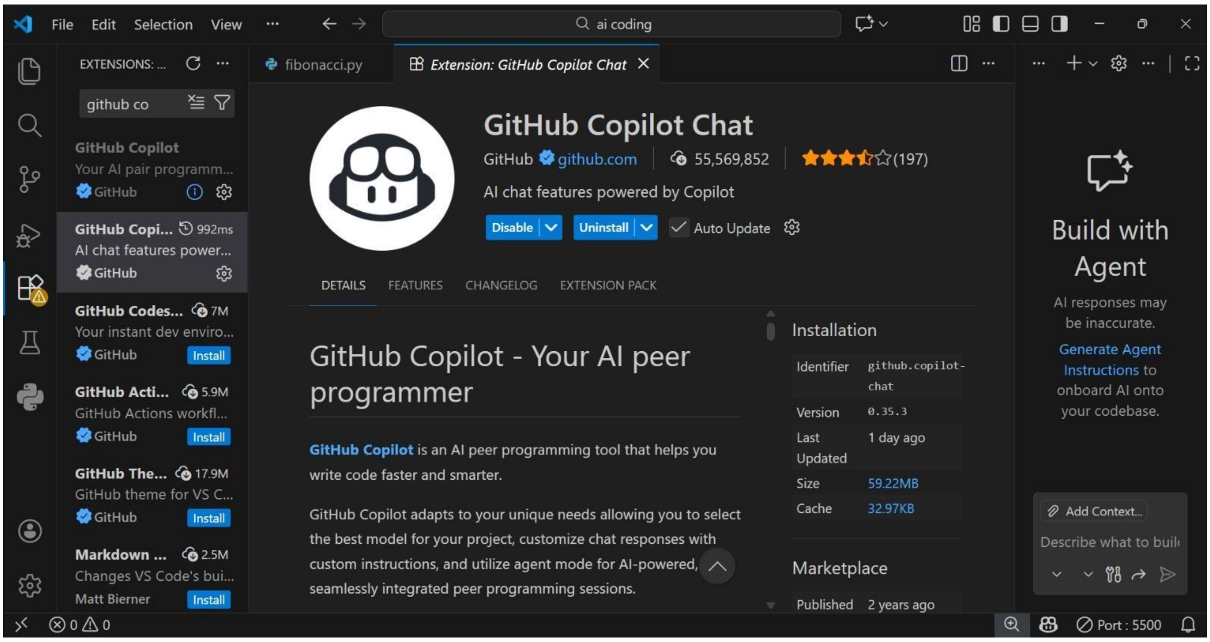
Course Title: AI-Assisted Coding

Batch – 05

Hall no. – 2303A51100

Question: Lab 1: Environment Setup – GitHub Copilot and VS Code Integration + Understanding AI-assisted Coding Workflow

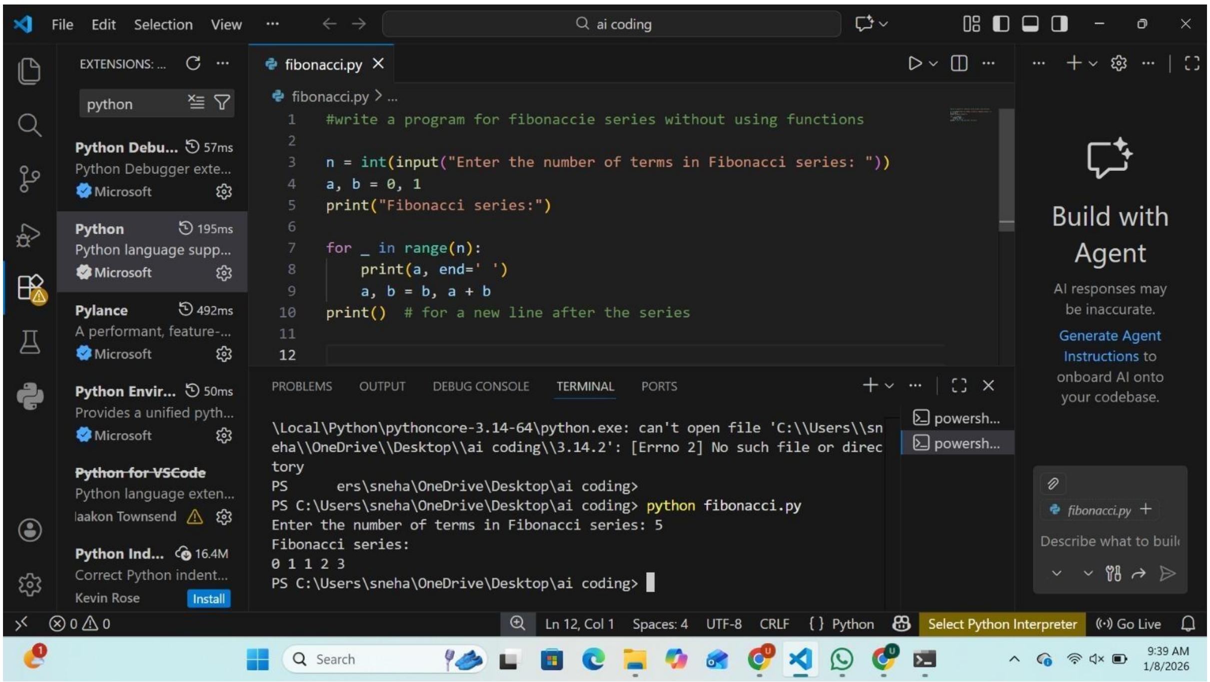
Task 0 ● Install and configure GitHub Copilot in VS Code. Take screenshots of each step.



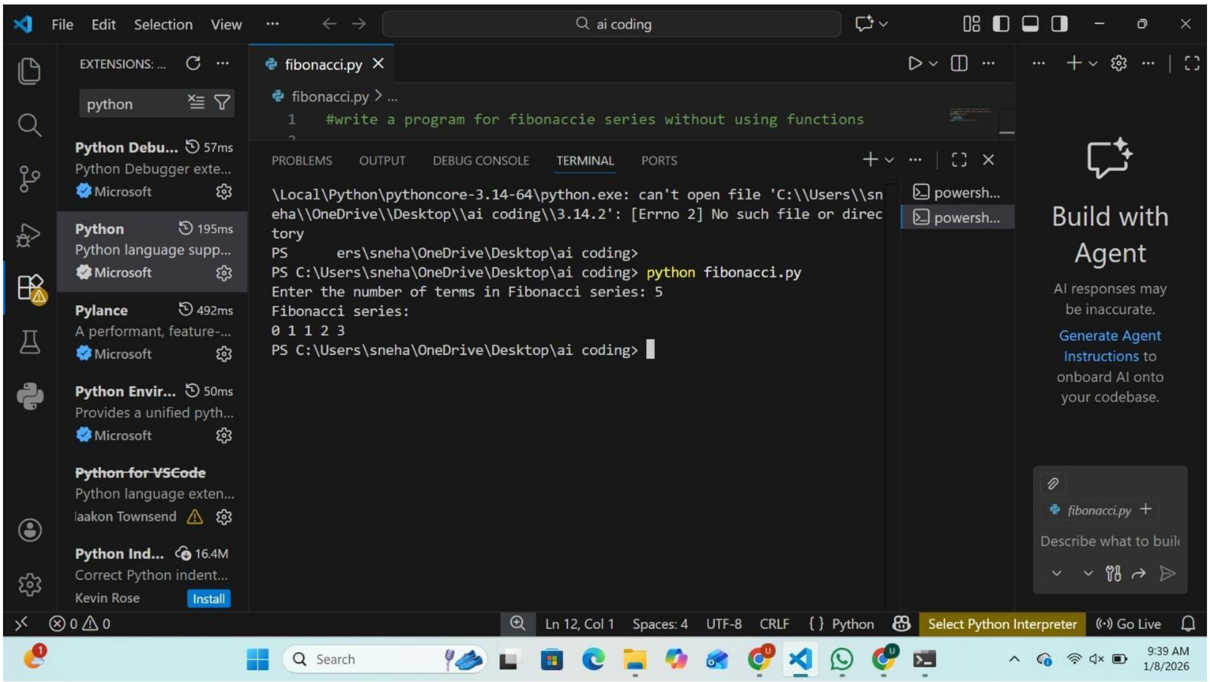
Explanation: I installed GitHub Copilot in VS Code using the Extensions option. Then I signed in with my GitHub account and allowed permissions. Copilot started giving code suggestions while typing, which made coding easier.

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

Input :



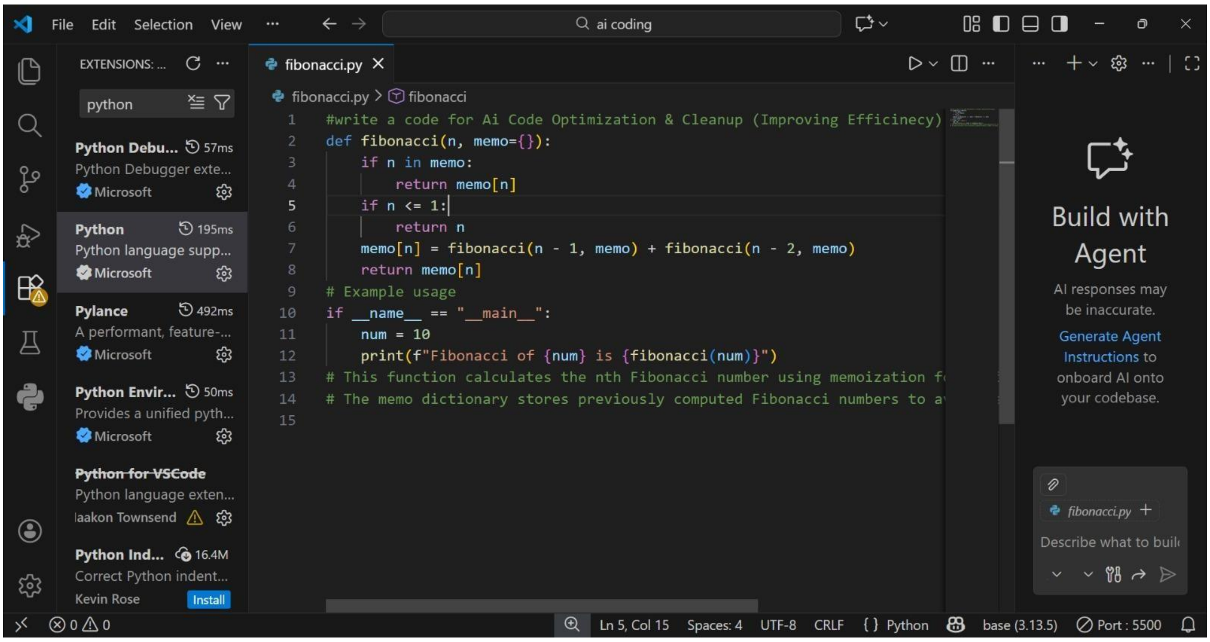
Output :



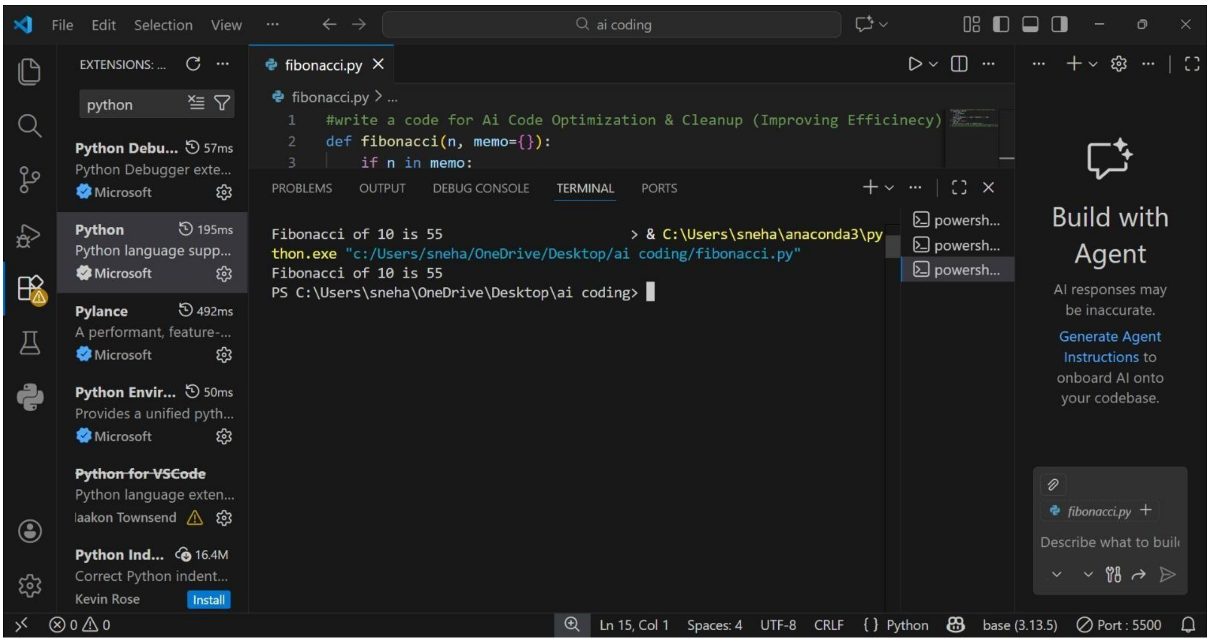
Explanation: The Fibonacci code is written in one place. No functions are used in this program. The code works, but it looks messy.

Task 2: AI-Code Optimisation & Cleanup (Improving Efficiency)

Input :



Output :

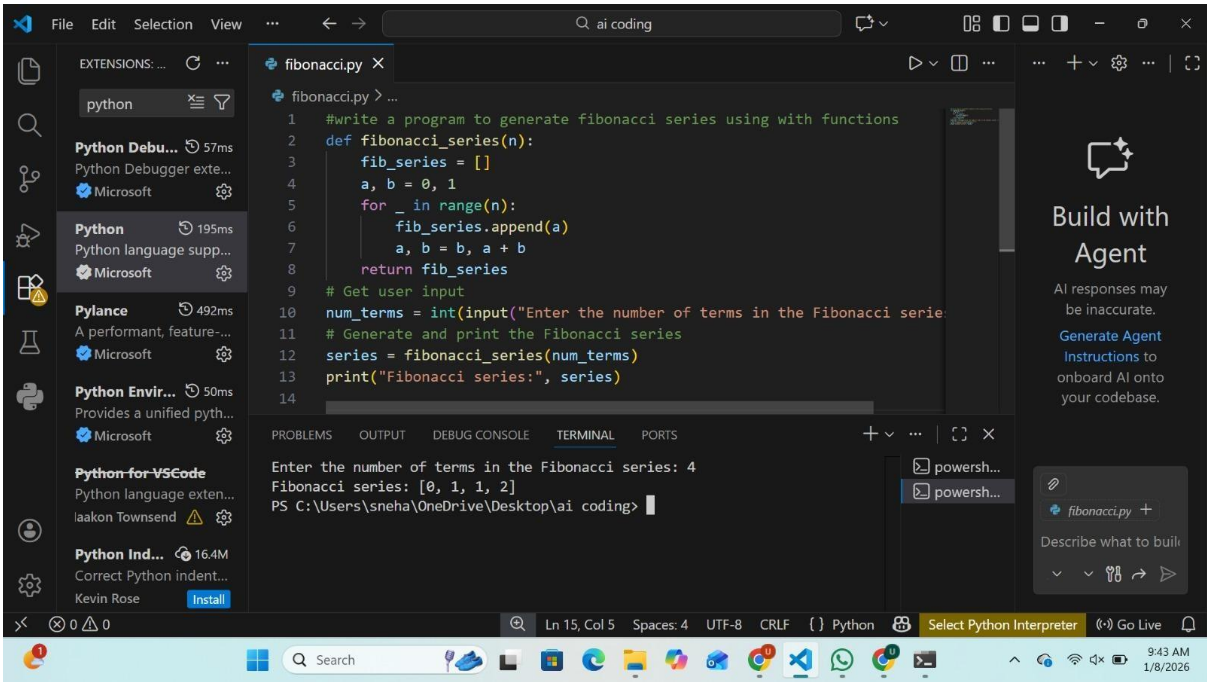


Explanation : AI removed extra and useless code.The program became short and clean.

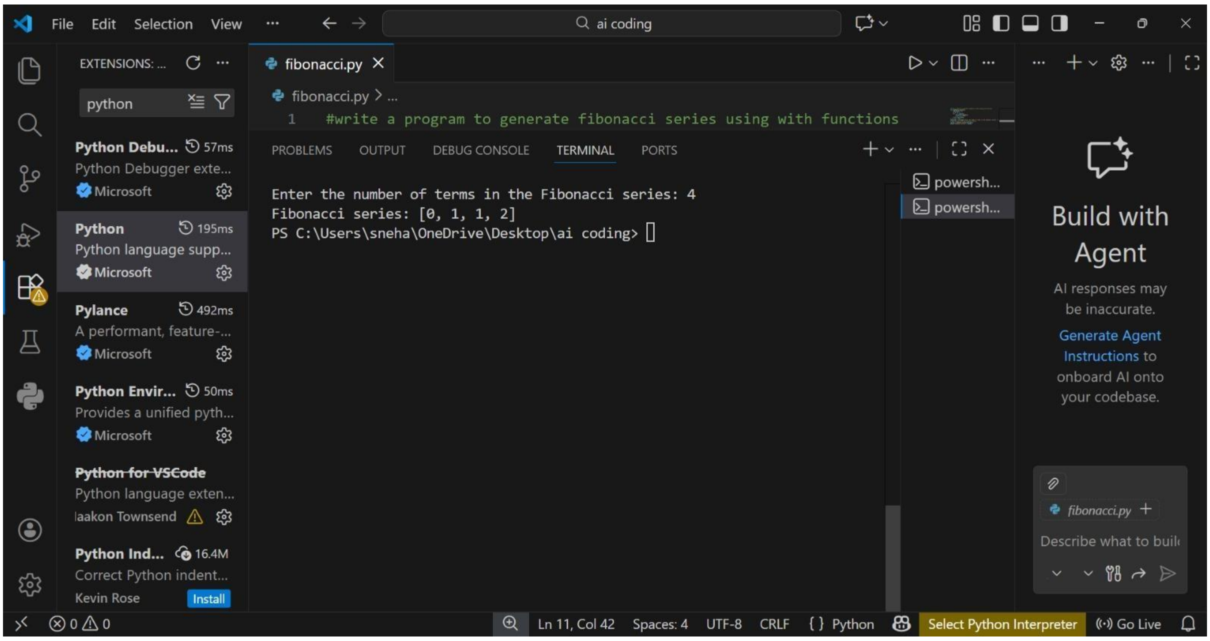
Now it is easy to understand.

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

Input :



Output :

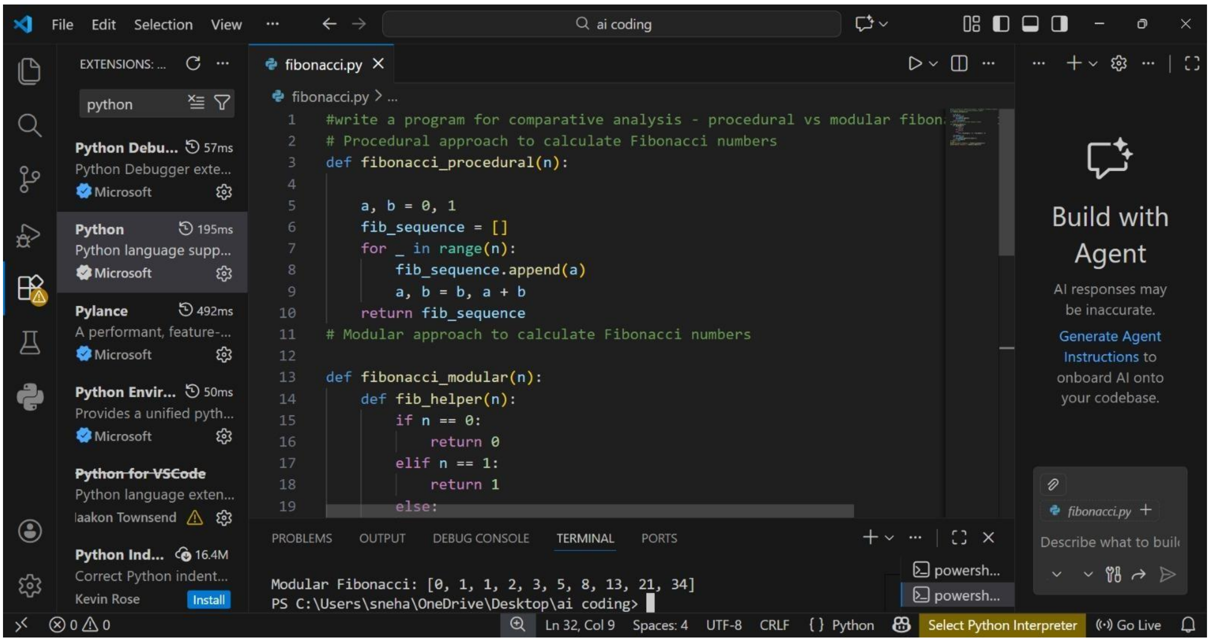


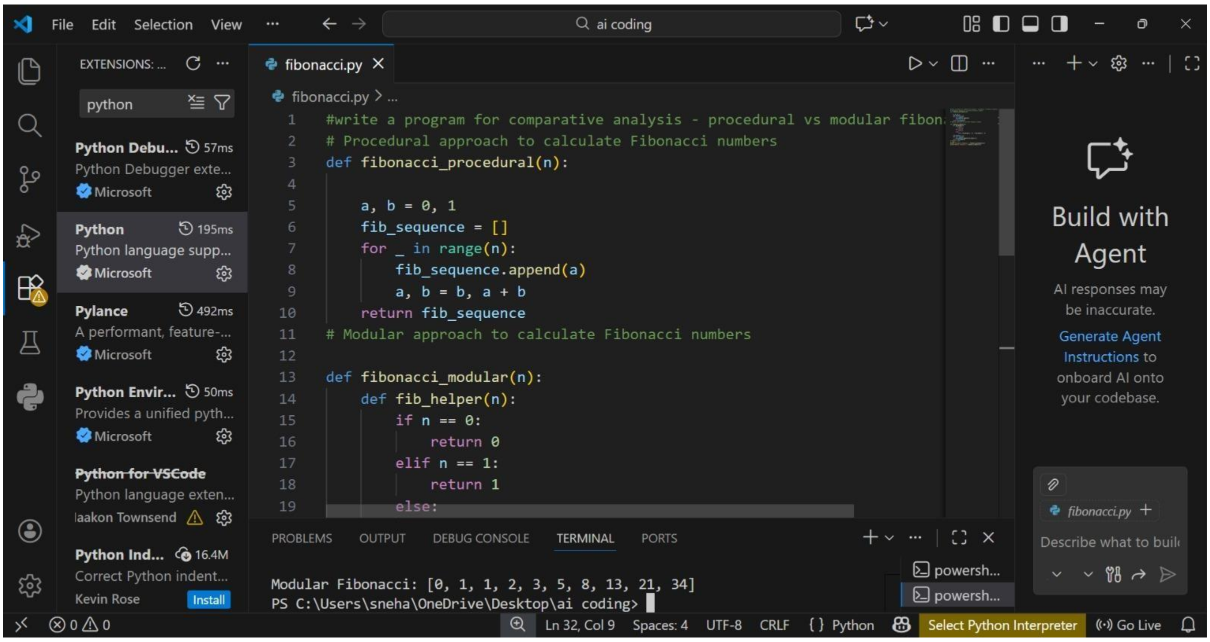
Explanation : The code is written using a function.This makes the program neat.

The function can be reused.

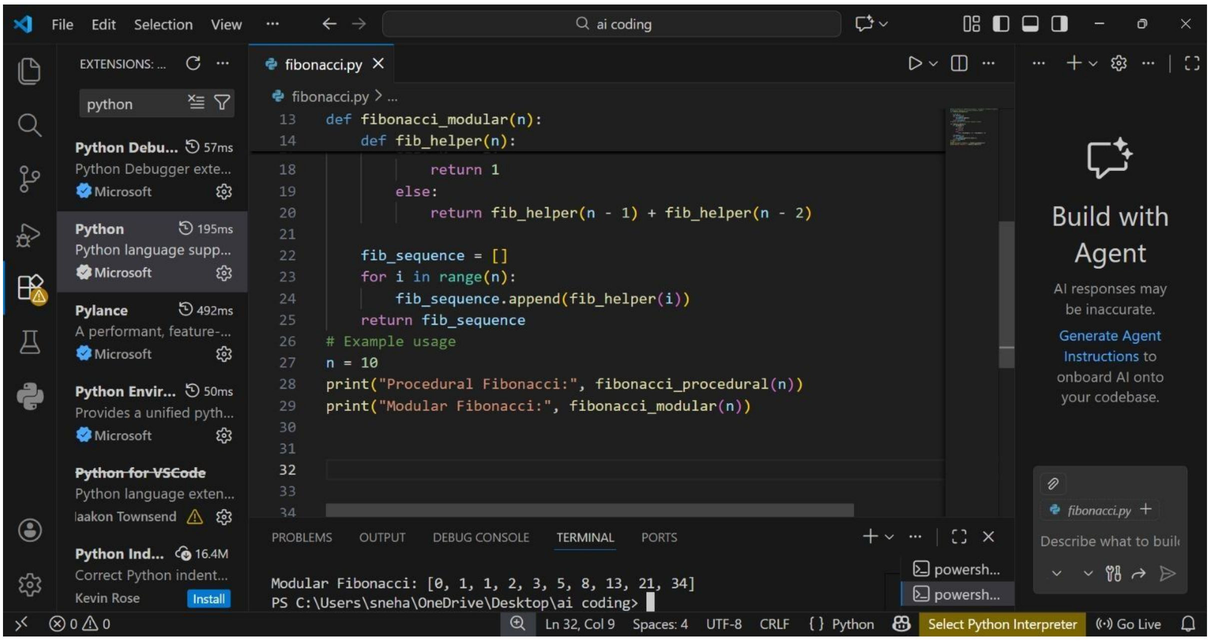
Task 4: Comparative Analysis – Procedural vs Modular Fibonacci Code

Input :





Output :

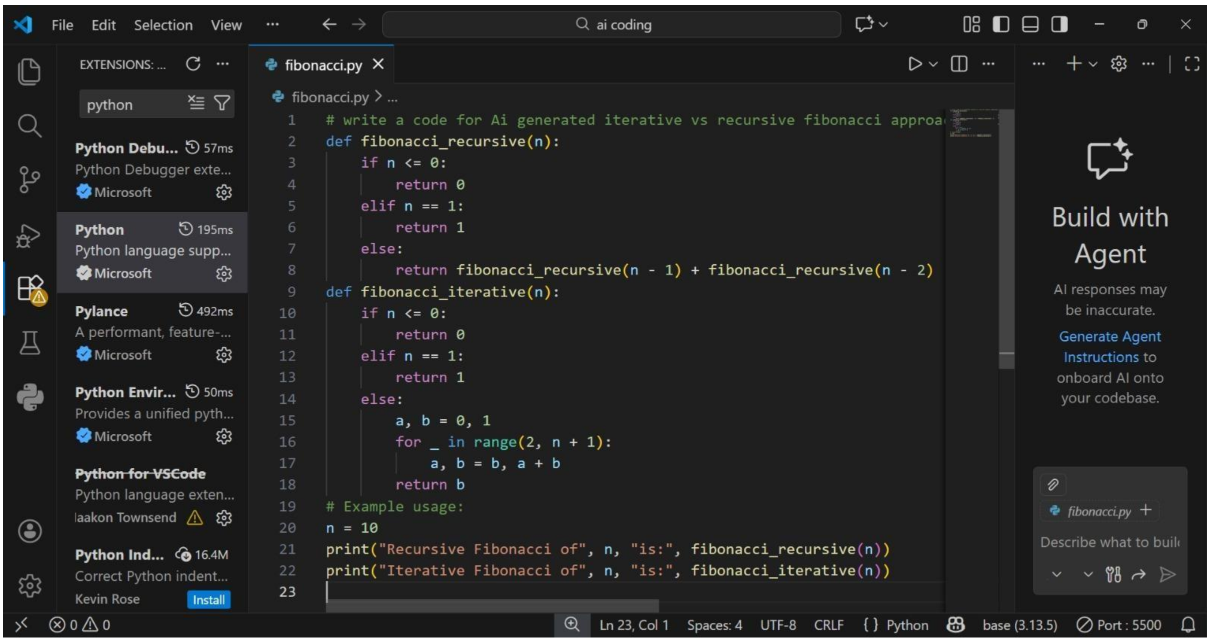


Explantion ; Procedural code is written in one block.Modular code uses functions.

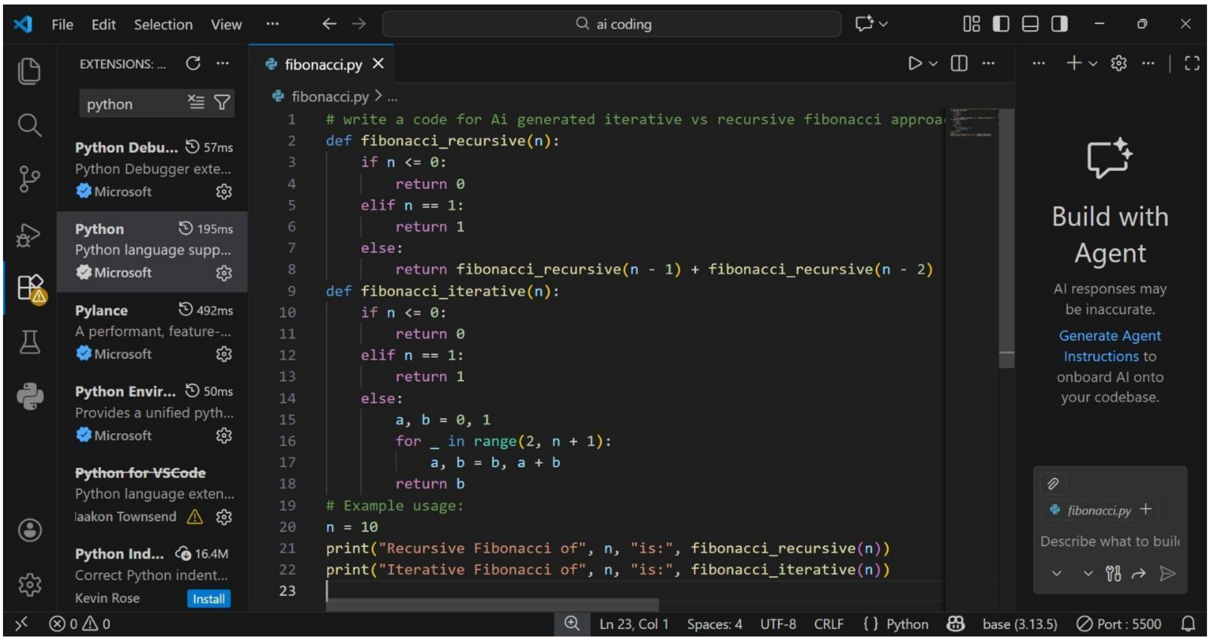
Modular code is better and clearer.

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

Input :



Output :



Explanation :

Iterative method uses a loop. Recursive method calls itself. The loop method is faster.