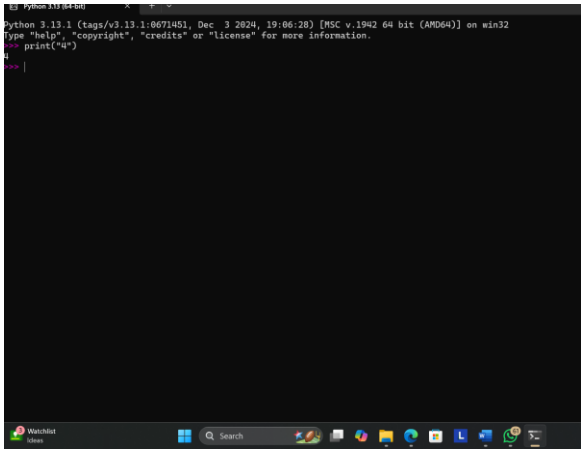
AI Assisted Coding Lab Assignment (1.4/24)

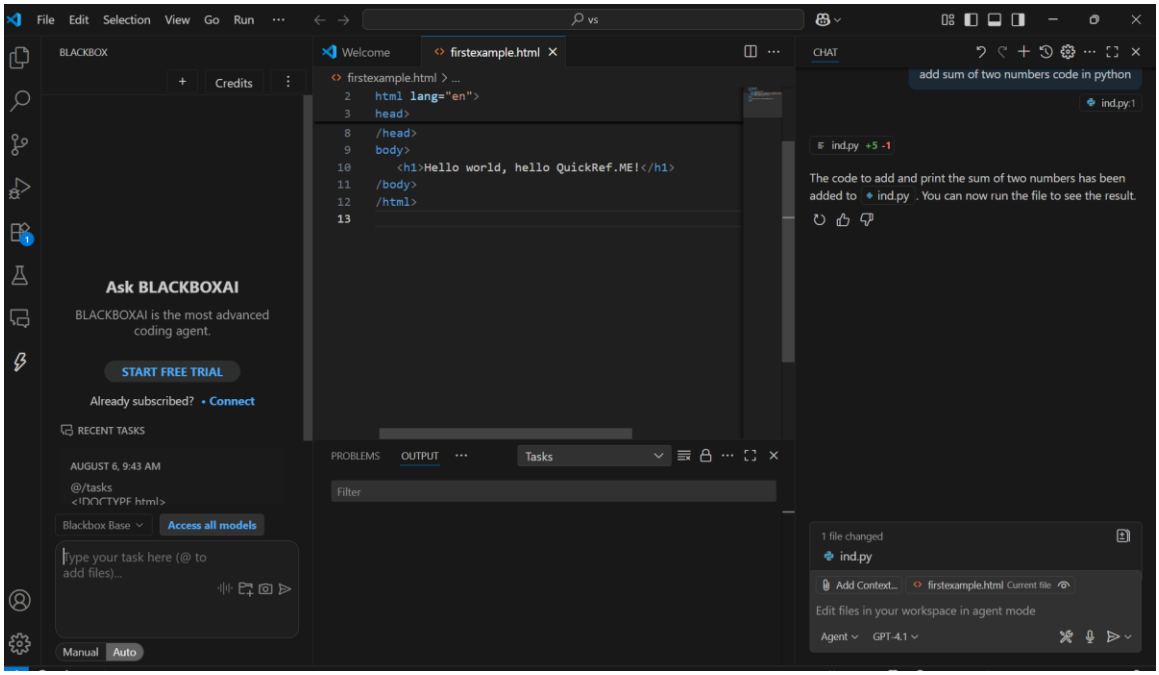
Name : Chandana .V

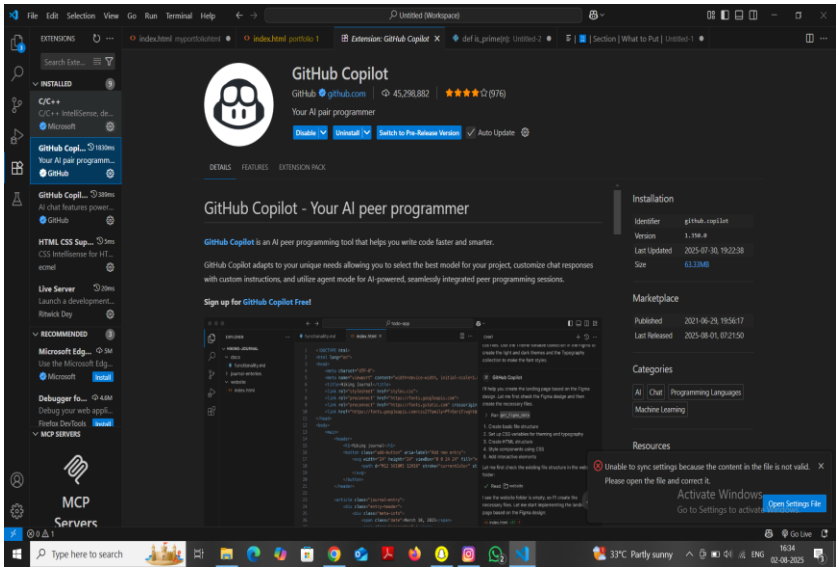
Roll No : 2403A51186

Section : CS-B09

Task 1: Install python , vscode , github co-pilot



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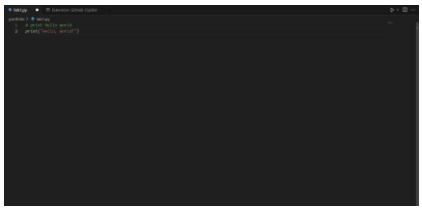

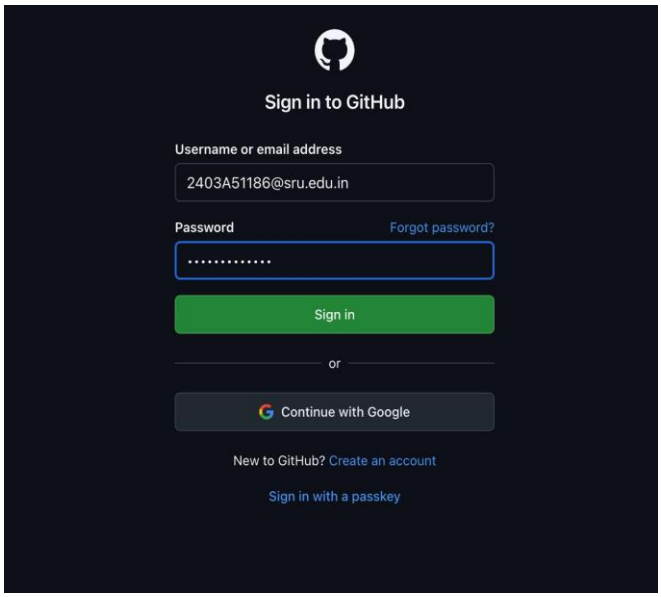
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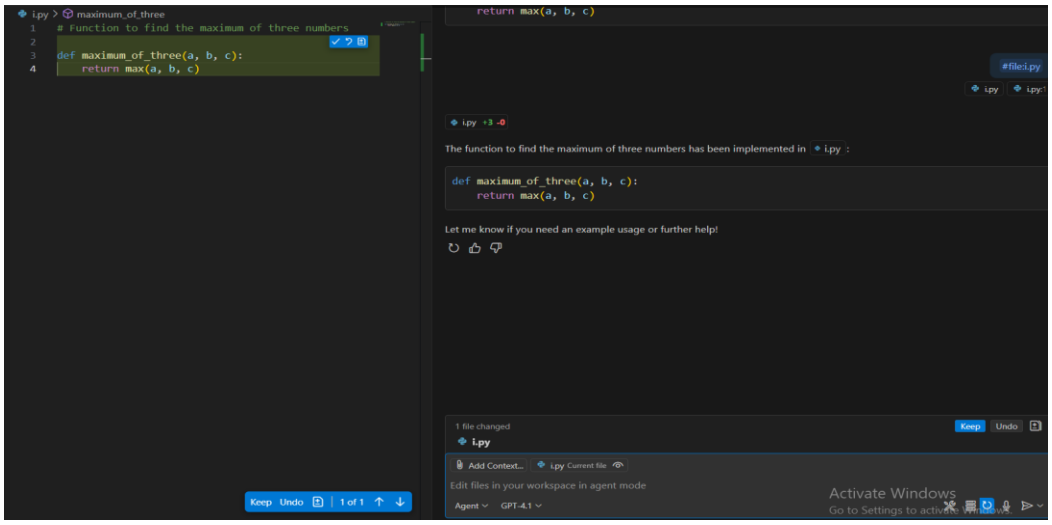
Task 2: Maximum of Three Numbers

Prompt used:
#write a Function to find the maximum of three numbers

Code:



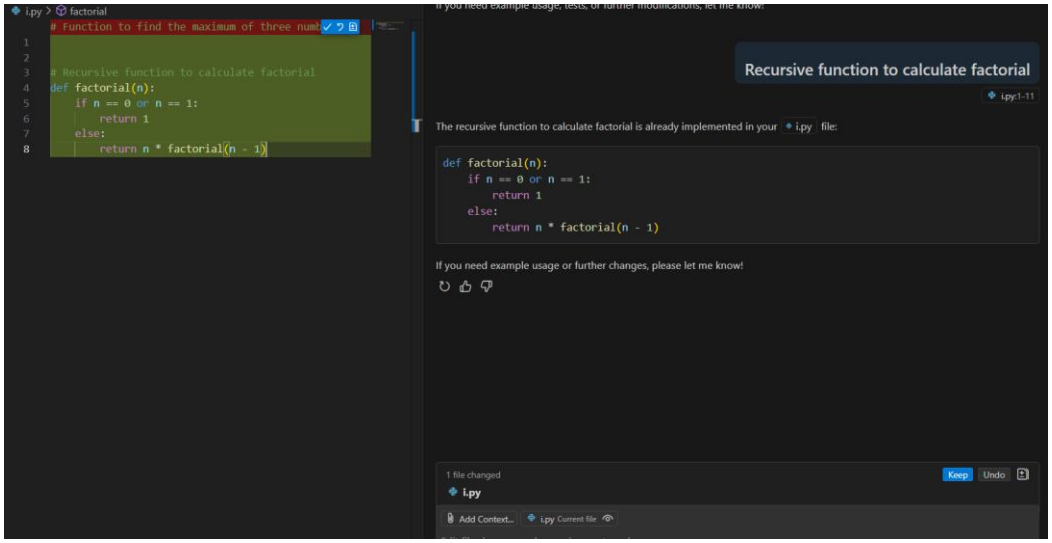
Explanation:
The function uses Python's built-in max() function to return the largest of the three inputs.

Sample Output:
Maximum is: 25

Task 3: Factorial (Recursive)

Prompt used:
write a Recursive function to calculate factorial

Code:



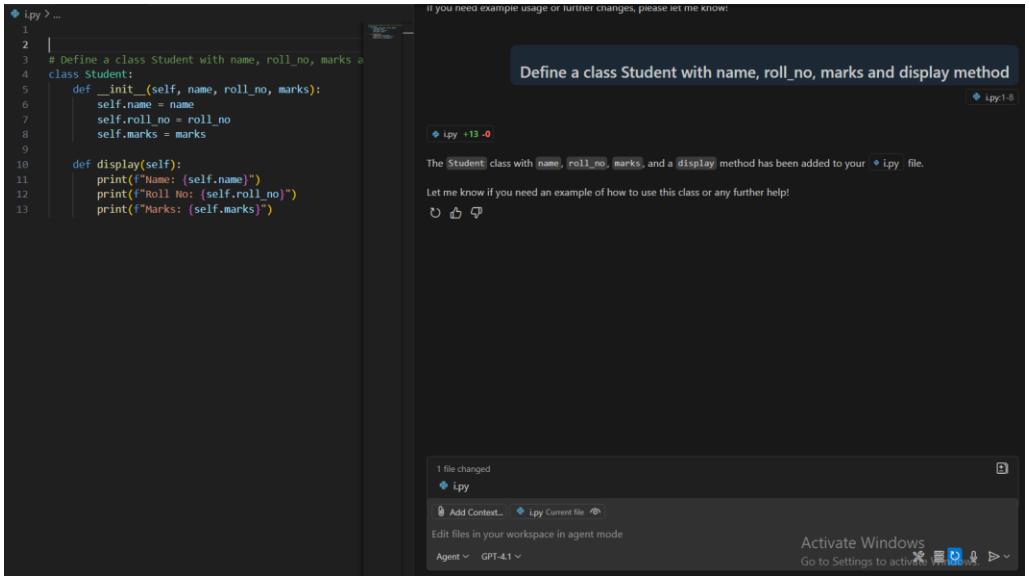
Explanation:
The function calls itself recursively until n becomes 1 or 0, which is the base case.

Sample Output:
Factorial of 5 is: 120

Task 4: Student Class

Prompt used:
write a prompt to Define a class Student with name, roll_no, marks and display method

Code:



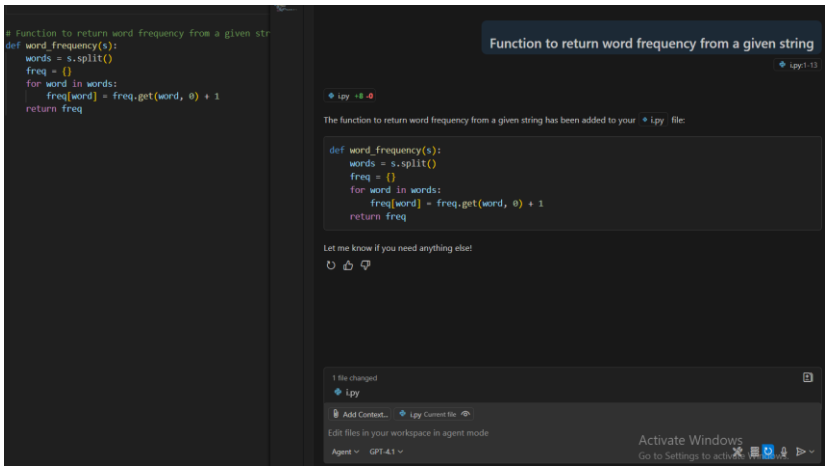
Explanation:
This class defines a constructor (__init__) and a method display() to print the details of a student object.

Sample Output:
Name: Chandana.V
Roll No: 2403A51186

Task 5: Word Frequency

Prompt used:
Function to return word frequency from a given string

Code:



Explanation:
The function splits the input string into words, converts them to lowercase, and uses a dictionary to count how many times each word appears.

Sample Output:
{'ai': 2, 'makes': 1, 'coding': 2, 'easier': 1, 'is': 1, 'fun': 1, 'with': 1}