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SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE		DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
ProgramName: B. Tech		**Assignment Type: Lab**	**AcademicYear:** 2025-2026
Course Coordinator Name	Venkataramana Veeramsetty		
Instructor(s)Name	Dr. V. Venkataramana (Co-ordinator) Dr. T. Sampath Kumar Dr. Pramoda Patro Dr. Brij Kishor Tiwari Dr.J.Ravichander Dr. Mohammand Ali Shaik Dr. Anirodh Kumar Mr. S.Naresh Kumar Dr. RAJESH VELPULA Mr. Kundhan Kumar Ms. Ch.Rajitha Mr. M Prakash Mr. B.Raju Intern 1 (Dharma teja) Intern 2 (Sai Prasad) Intern 3 (Sowmya) NS_2 (Mounika)		
CourseCode	24CS002PC215	**CourseTitle**	AI Assisted Coding
Year/Sem	II/I	**Regulation**	R24
Date and Day of Assignment	Week1 - Thursday	**Time(s)**	
Duration	2 Hours	**Applicableto Batches**	24CSBTB01 To 24CSBTB39
AssignmentNumber: **1.4**(Present assignment number)/**24**(Total number of assignments)			

Q.No.	Question	*ExpectedTime to complete*
1	Lab 1: Environment Setup – GitHub Copilot and VS Code Integration **Lab Objectives:** ● To install and configure GitHub Copilot in Visual Studio Code. ● To explore AI-assisted code generation using GitHub Copilot.	Week1 - Thursday

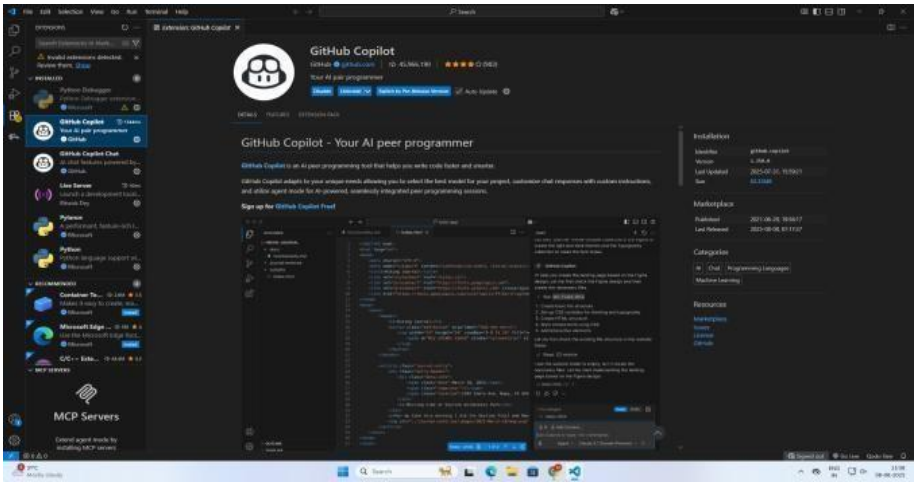
- To analyze the accuracy and effectiveness of Copilot's code suggestions.
- To understand prompt-based programming using comments and code context

Lab Outcomes (LOs):
After completing this lab, students will be able to:

- Set up GitHub Copilot in VS Code successfully.
- Use inline comments and context to generate code with Copilot.
- Evaluate AI-generated code for correctness and readability.
- Compare code suggestions based on different prompts and programming styles.

Task Description #1
- Install and configure GitHub Copilot in VS Code. Take screenshots of each step.

Expected Output #1
- Successfully install and activate GitHub Copilot in VS Code. Include screenshots showing installation, authentication via GitHub, and an example suggestion from Copilot**.**

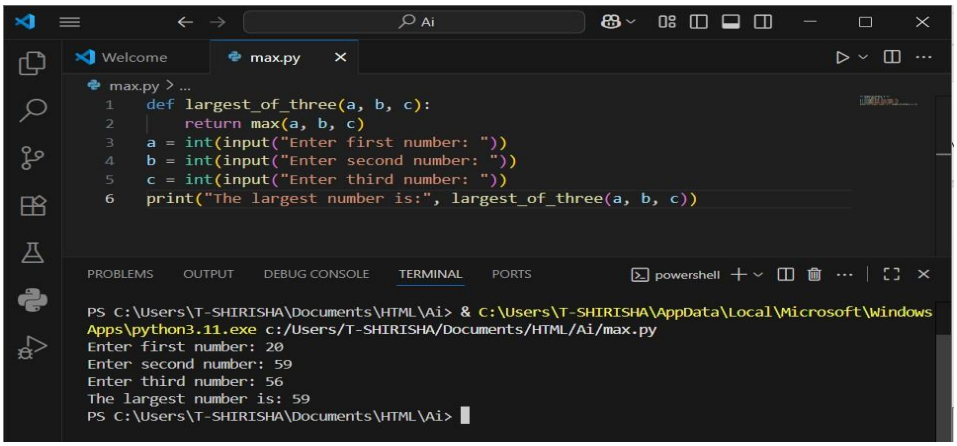


Task Description #2
- Afunction in Python that returns the maximum of three numbers using GitHub Copilot. Use an appropriate comment as a prompt.

- **Prompt :** Write a program in python that returns the maximum of three.

Expected Output #2

• Python function that takes three inputs and returns the largest value. Include the code and output.



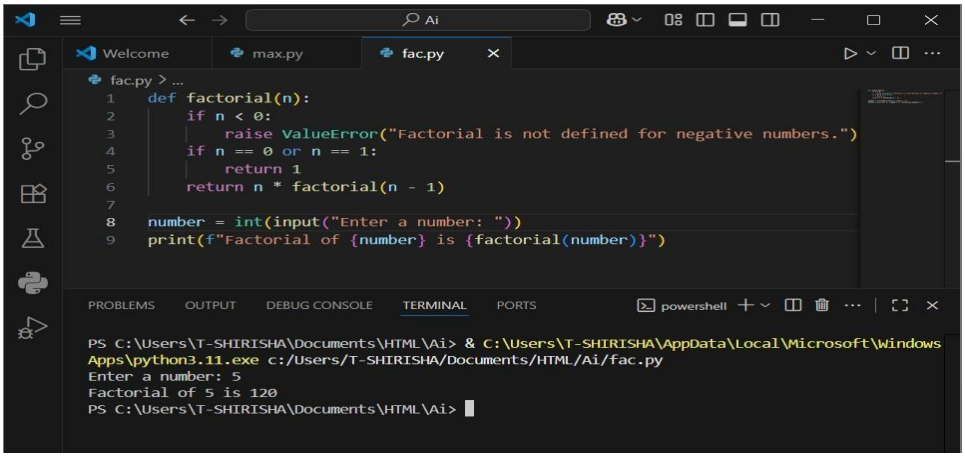
Task Description #3

• Use GitHub Copilot to create a recursive Python function that calculates the factorial of a number.

•Prompt : write a program in python to create a python function for factorial using recursion.

Expected Output #3

• Python function for factorial using recursion with input and output examples.



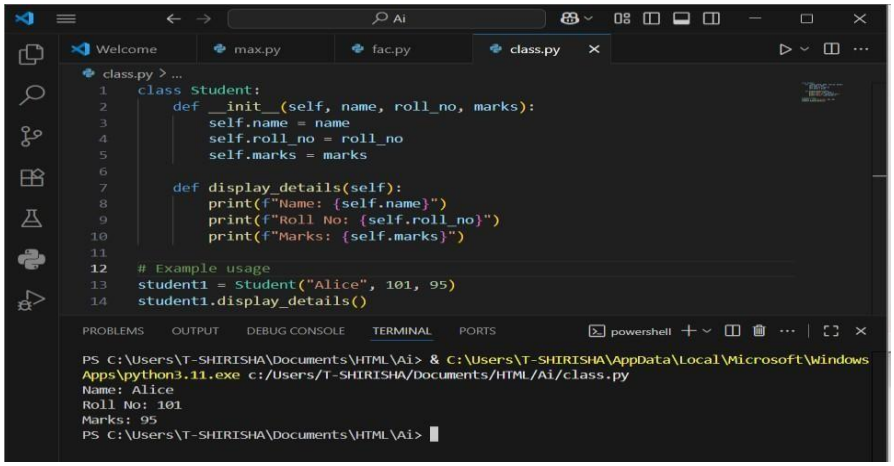
Task Description #4

• Prompt GitHub Copilot to create a class named Student with attributes name, roll_no, and marks. Add a method to display student details.

• **Prompt :** write a program in python to create class named Student with attributes name, roll_no, and marks. Add a method to display student details.

Expected Output #4

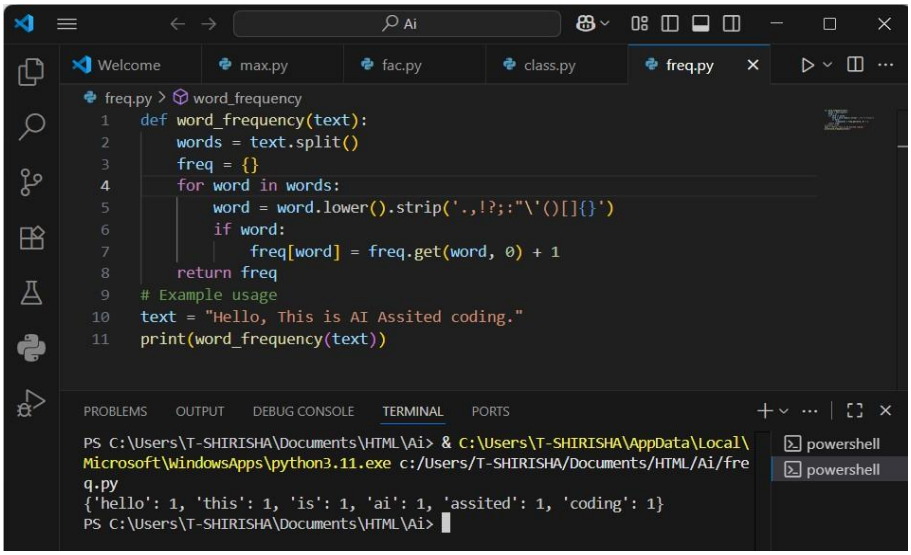
Python class definition with an initializer and a display method. Include object creation and output.



Task Description #5
•Ask GitHub Copilot to generate a Python function that takes a string as input and returns the frequency of each word.

• **Prompt :** write a program in python to generate a Python function that takes a string as input and returns the frequency of each word

Expected Output #5
Python function that returns word frequency using a dictionary. Provide sample input and output



	Criteria	Max Marks		
	Install and configure GitHub Copilot in VS Code (Task #1)	0.5		
	Python function that takes three inputs and returns the largest value (Task #2)	0.5		
	Python function for factorial using recursion (Task #3)	0.5		
	Python class definition with an initializer and a display method (Task #4)	0.5		
	Function that returns word frequency using a dictionary (Task #5)	0.5		
	Total	**2.5 Marks**		