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)			

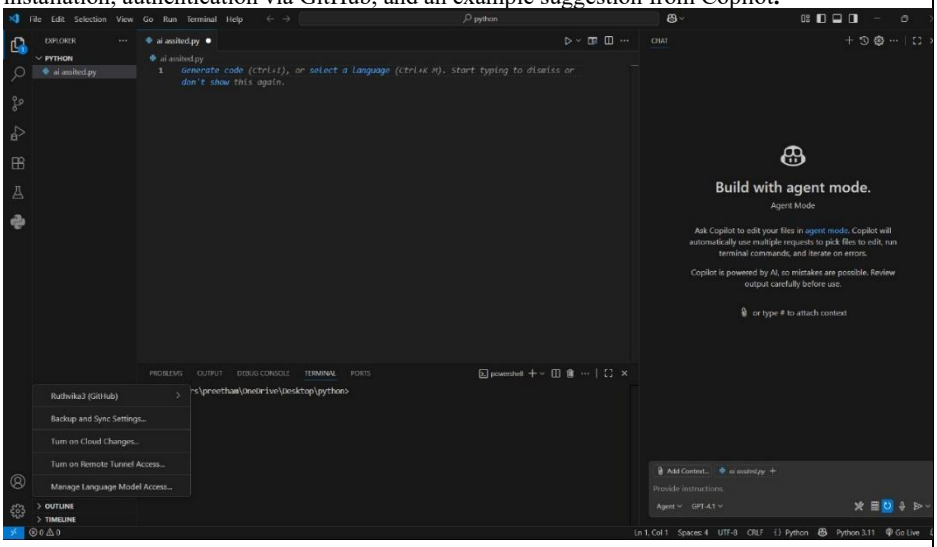
Q.No.	Question	*ExpectedTime to complete*
1	Lab 1: Environment Setup – GitHub Copilot and VS Code Integration **Lab Objectives:** ● To install and configure GitHub Copilot in Visual Studio Code. ● To explore AI-assisted code generation using GitHub Copilot.	Week1 - Thursday

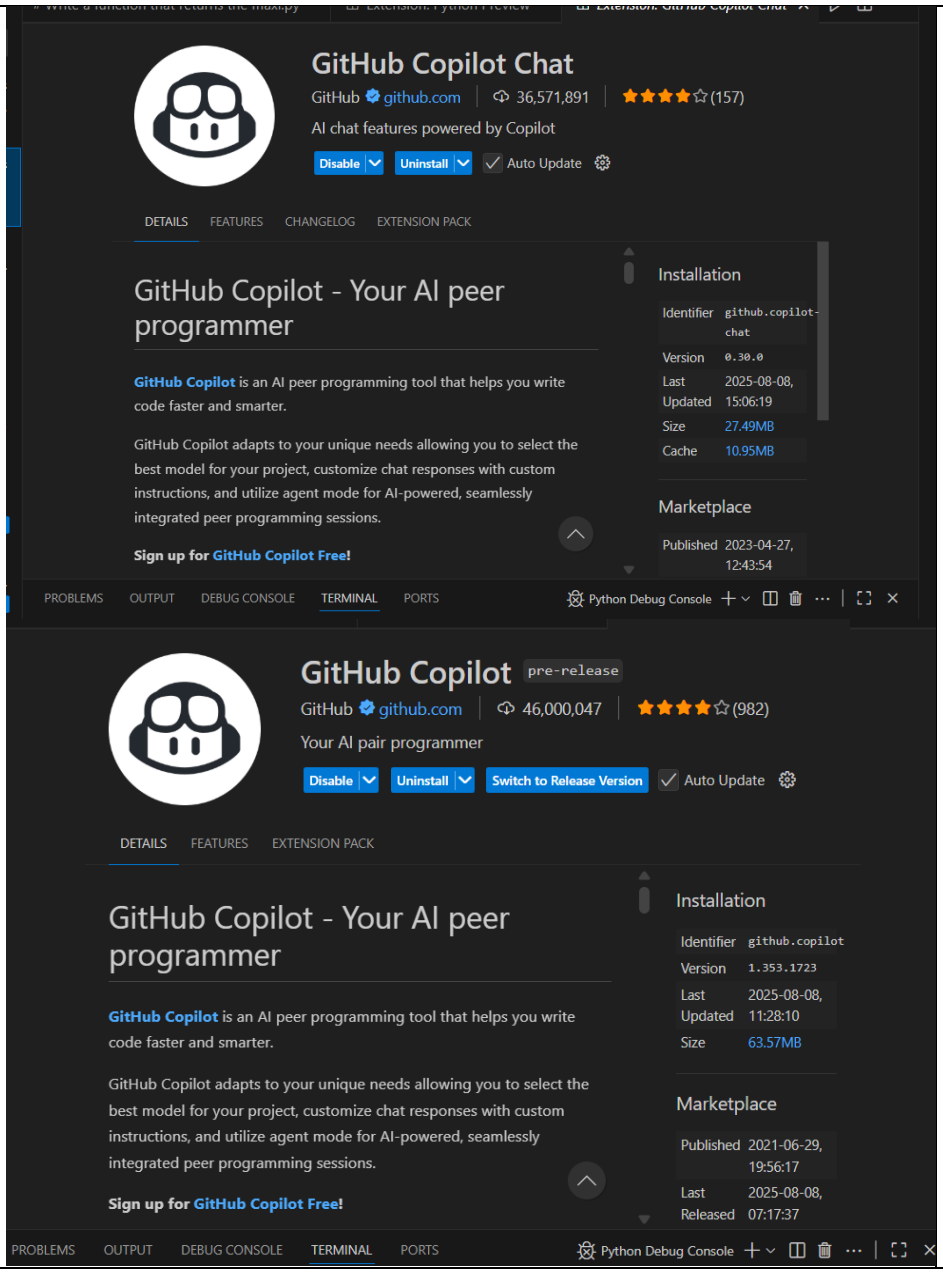
- To analyze the accuracy and effectiveness of Copilot's code suggestions.
- To understand prompt-based programming using comments and code context

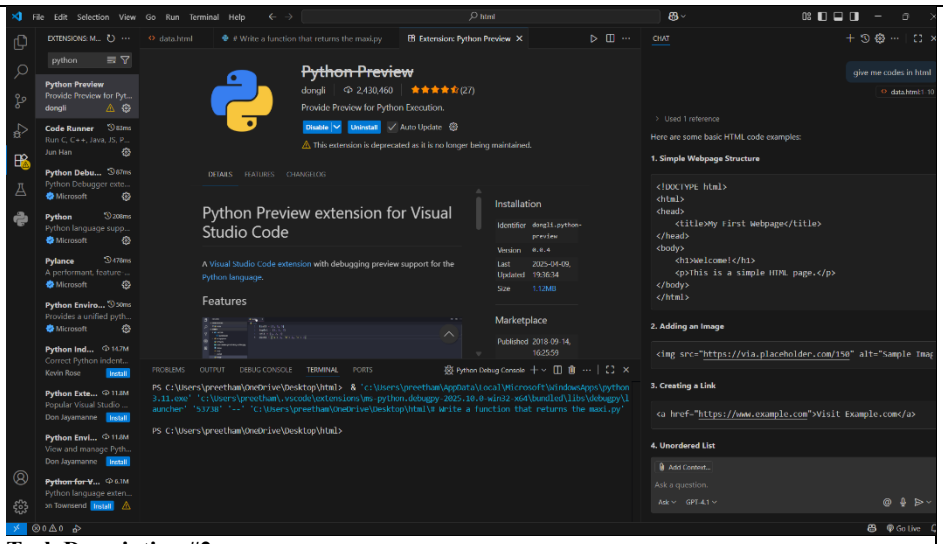
Lab Outcomes (LOs):
After completing this lab, students will be able to:

- 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**.**




GitHub Copilot Chat
GitHub github.com 36,571,891 (157)
AI chat features powered by Copilot
Disable Uninstall Auto Update
DETAILS FEATURES CHANGELOG EXTENSION PACK
GitHub Copilot - Your AI peer programmer
GitHub Copilot is an AI peer programming tool that helps you write code faster and smarter.
GitHub Copilot adapts to your unique needs allowing you to select the best model for your project, customize chat responses with custom instructions, and utilize agent mode for AI-powered, seamlessly integrated peer programming sessions.
Sign up for GitHub Copilot Free!
Installation
Identifier github.copilot-chat
Version 0.30.0
Last Updated 2025-08-08, 15:06:19
Size 27.49MB
Cache 10.95MB
Marketplace
Published 2023-04-27, 12:43:54
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python Debug Console
GitHub Copilot pre-release
GitHub github.com 46,000,047 (982)
Your AI pair programmer
Disable Uninstall Switch to Release Version Auto Update
DETAILS FEATURES EXTENSION PACK
GitHub Copilot - Your AI peer programmer
GitHub Copilot is an AI peer programming tool that helps you write code faster and smarter.
GitHub Copilot adapts to your unique needs allowing you to select the best model for your project, customize chat responses with custom instructions, and utilize agent mode for AI-powered, seamlessly integrated peer programming sessions.
Sign up for GitHub Copilot Free!
Installation
Identifier github.copilot
Version 1.353.1723
Last Updated 2025-08-08, 11:28:10
Size 63.57MB
Marketplace
Published 2021-06-29, 19:56:17
Last Released 2025-08-08, 07:17:37
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python Debug Console

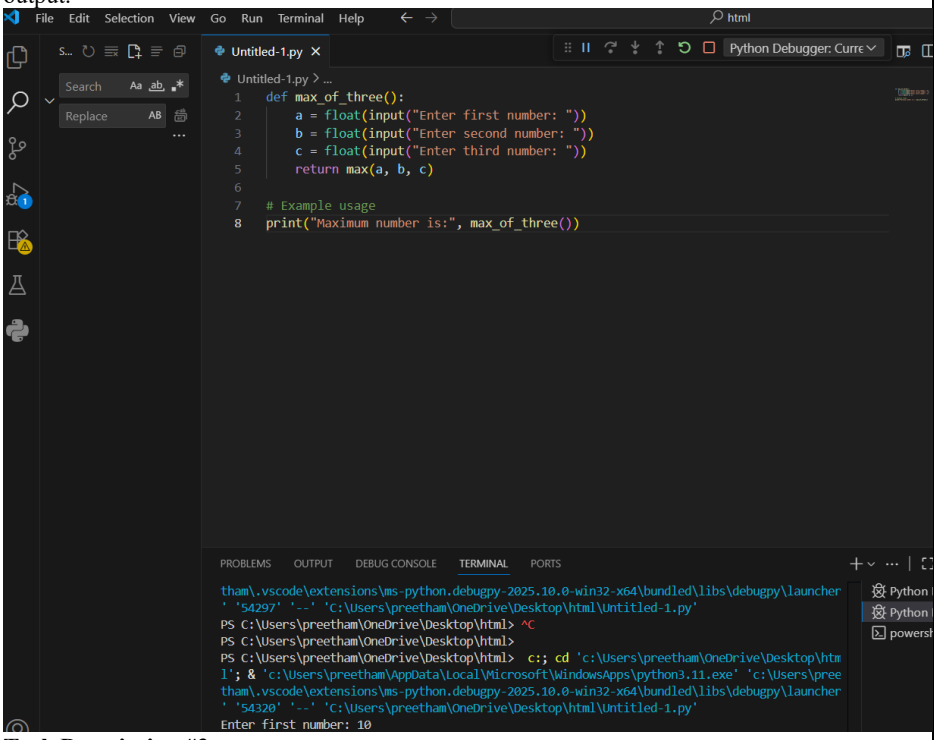


Task Description #2

• A function in Python that returns the maximum of three numbers using GitHub Copilot. Use an appropriate comment as a prompt.

Expected Output #2

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

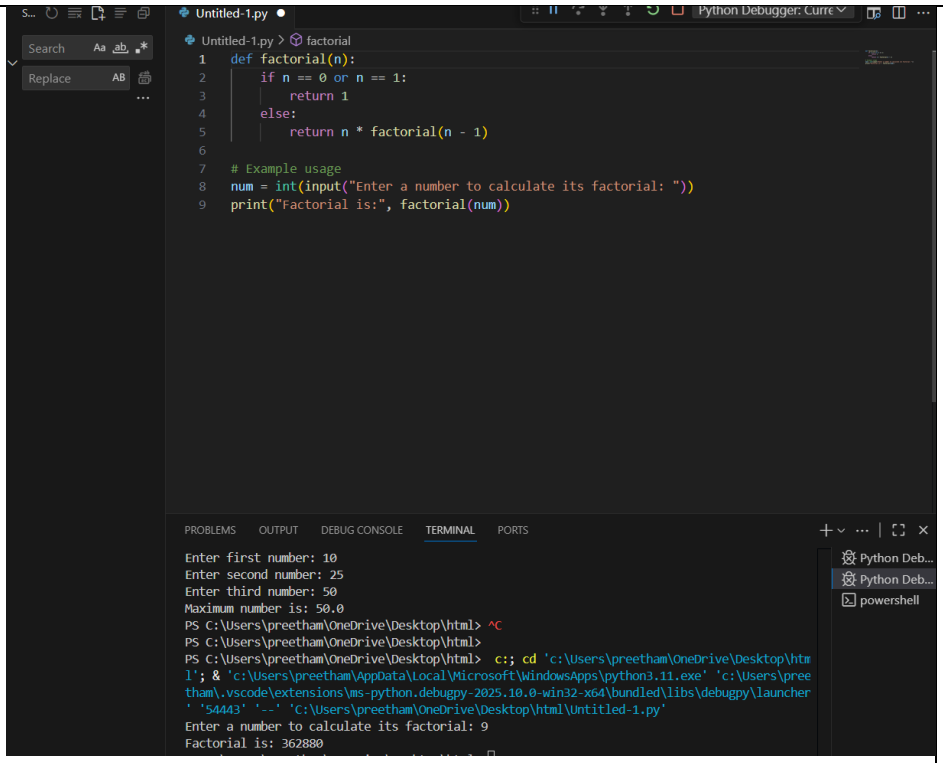


Task Description #3

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

Expected Output #3

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

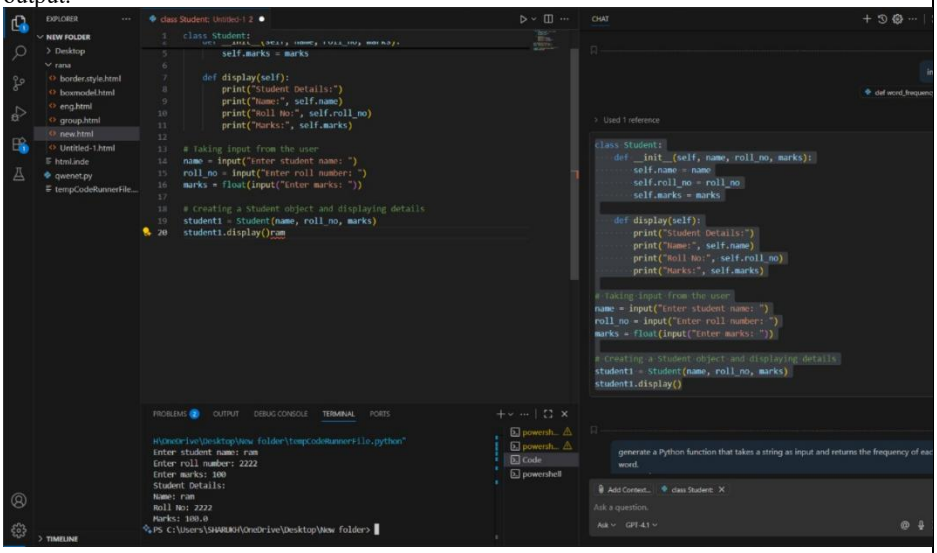


Task Description #4

• Prompt GitHub Copilot 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.

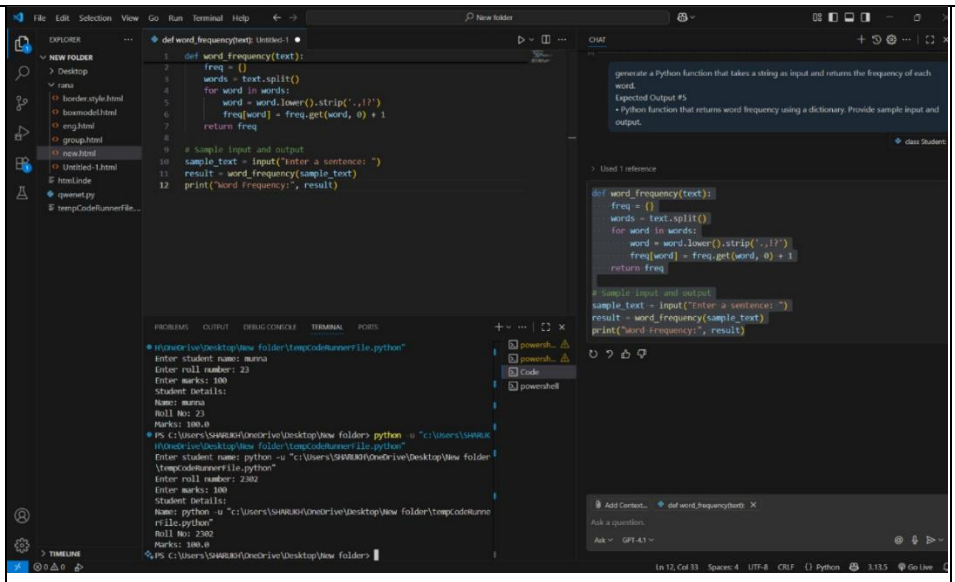


Task Description #5

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

Expected Output #5

• Python function that returns word frequency using a dictionary. Provide sample input and output.



Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output and if required, screenshots

Evaluation Criteria:

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**