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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
CourseCoordinatorName		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 - Wednesday	**Time(s)**	
Duration	2 Hours	**Applicableto Batches**	24CSBTB01 To 24CSBTB39
AssignmentNumber:1.3(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.	Week1 - Wednesday

- To explore AI-assisted code generation using GitHub Copilot.
- 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.
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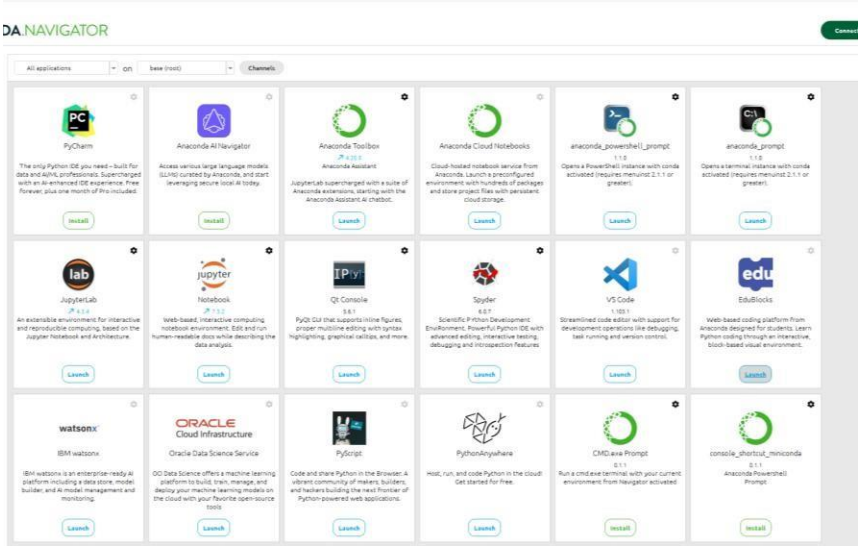
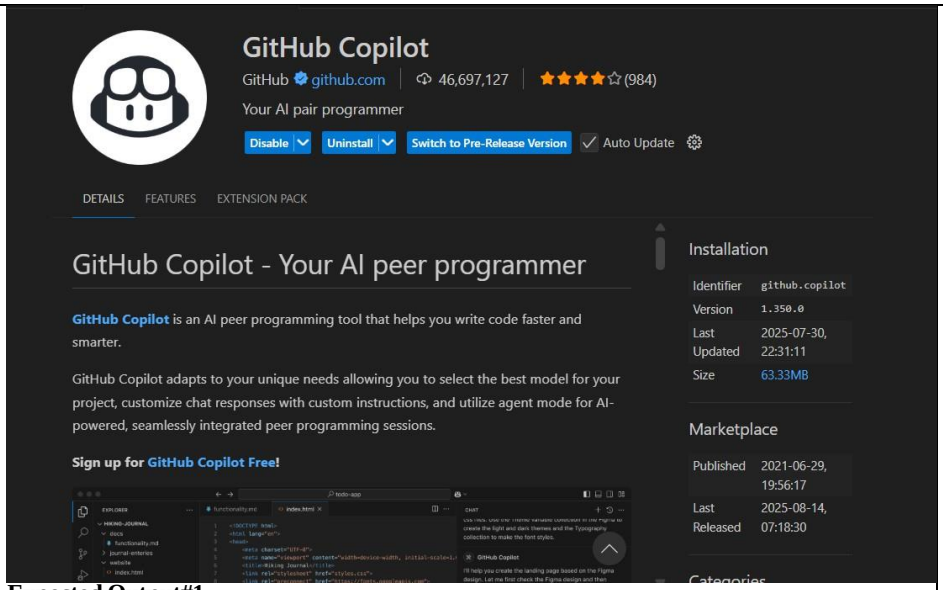
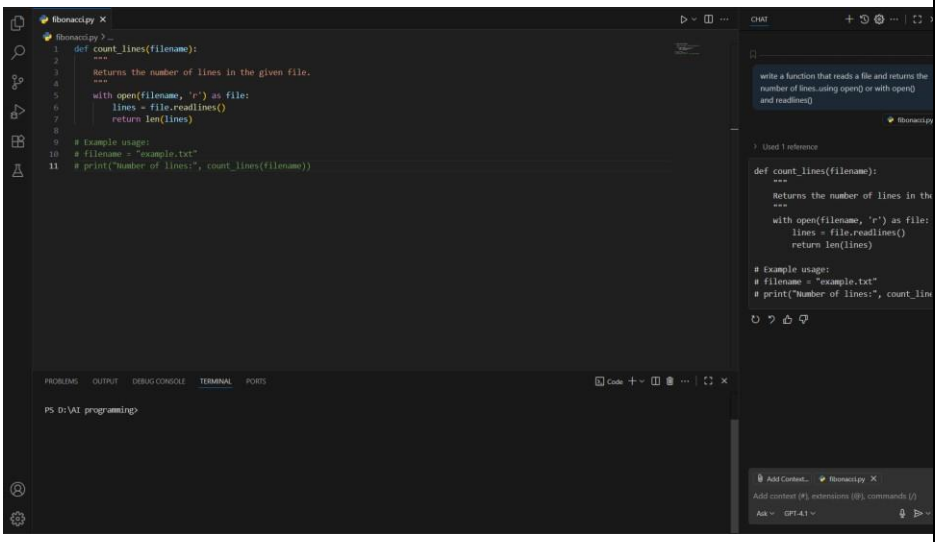




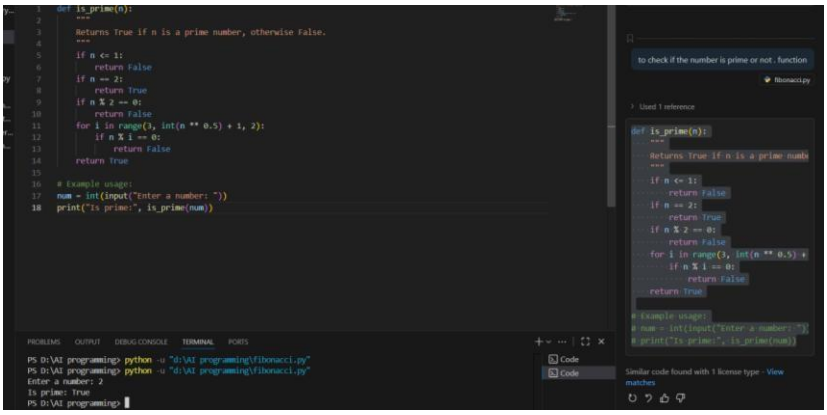
Expected Output#1

- Install and configure GitHub Copilot in VS Code. Take screenshots of each step.



Task Description#2

- Use Copilot to generate a is_prime() Python function**.**

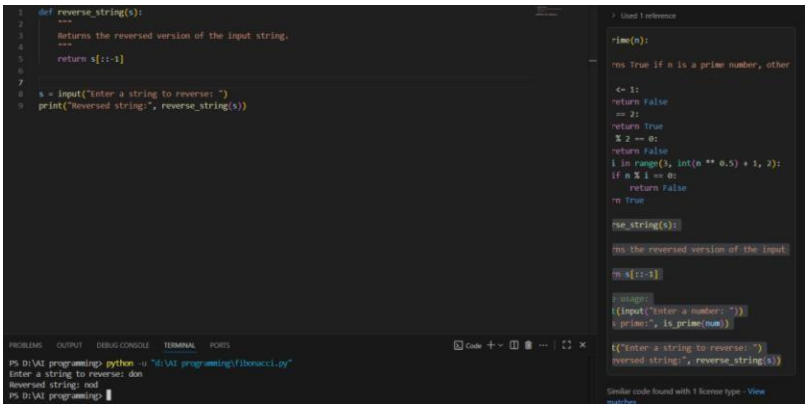


Expected Output#2

- Function to check primality with correct logic.

Task Description#3

- Write a comment like # Function to reverse a string and use Copilot to generate the function.



Expected Output#3

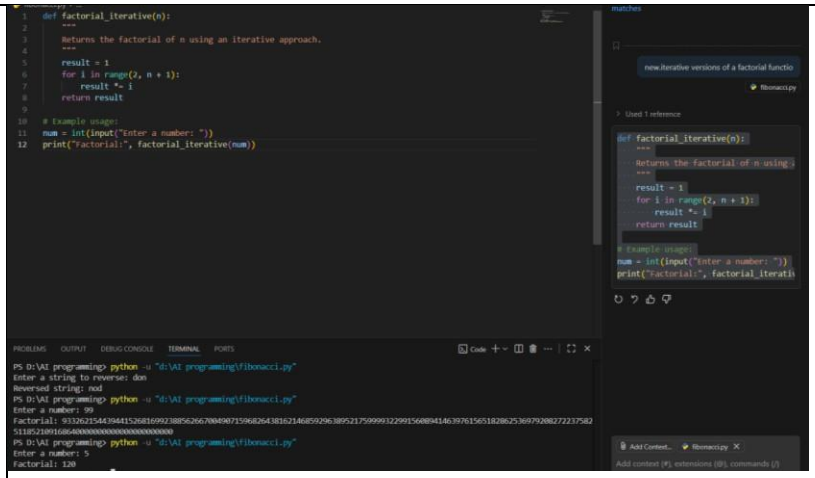
- Auto-completed reverse function

Task Description#4

- Generate both recursive and iterative versions of a factorial function using comments..

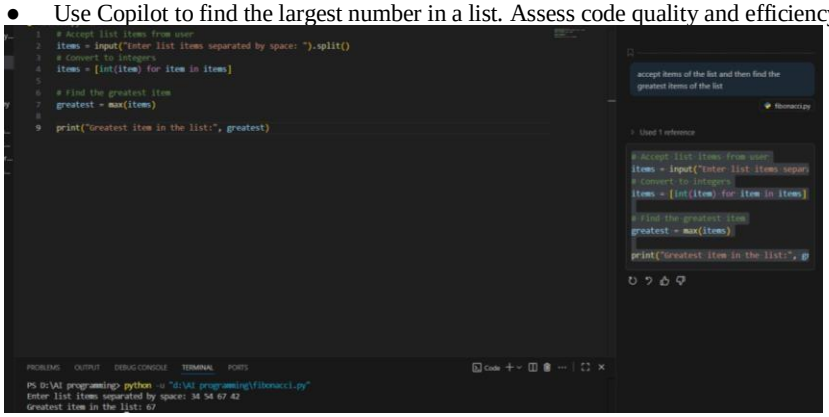
Expected Output#4

- Two working factorial implementations



Task Description#5

- Use Copilot to find the largest number in a list. Assess code quality and efficiency.



Expected Output#5

- A valid function with your review

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
Successful Setup of Copilot (Task #1)	0.5
is_prime() Python function (Task #2)	0.5
Reverse a string function (Task #3)	0.5
Factorial Function (Task #4)	0.5
Find the largest number (Task #5)	0.5
Total	**2.5 Marks**