

Name:Alluri Chaithra    Batch=06    2403A51105

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 <b>Lab Objectives:</b> <ul style="list-style-type: none"> <li>To install and configure GitHub Copilot in Visual Studio Code.</li> </ul>		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

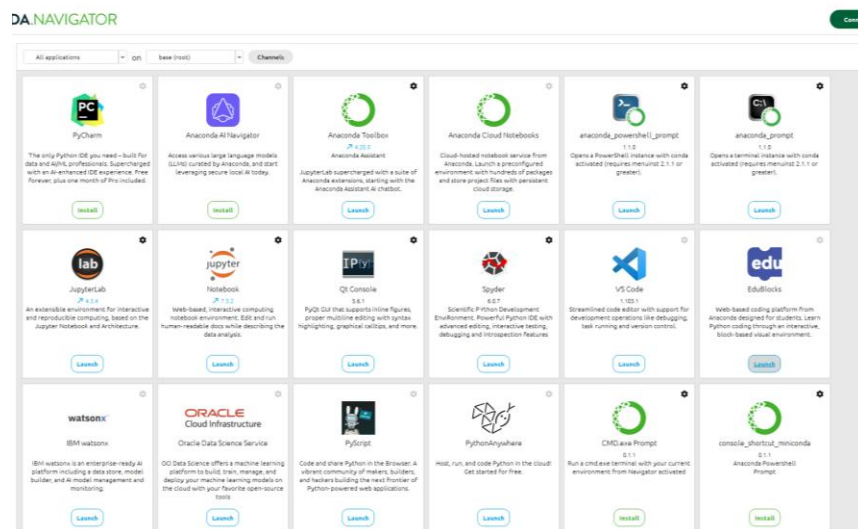
### Lab Outcomes (LOs):


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.
- 





# GitHub Copilot

GitHub [github.com](#) | 46,697,127 | ★★★★★ (984)

Your AI pair programmer

[Disable](#) [Uninstall](#) [Switch to Pre-Release Version](#) [Auto Update](#)

DETAILS

FEATURES

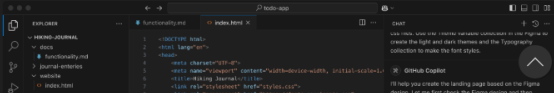
EXTENSION PACK

## 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	1.350.0
Last Updated	2025-07-30, 22:31:11
Size	63.33MB

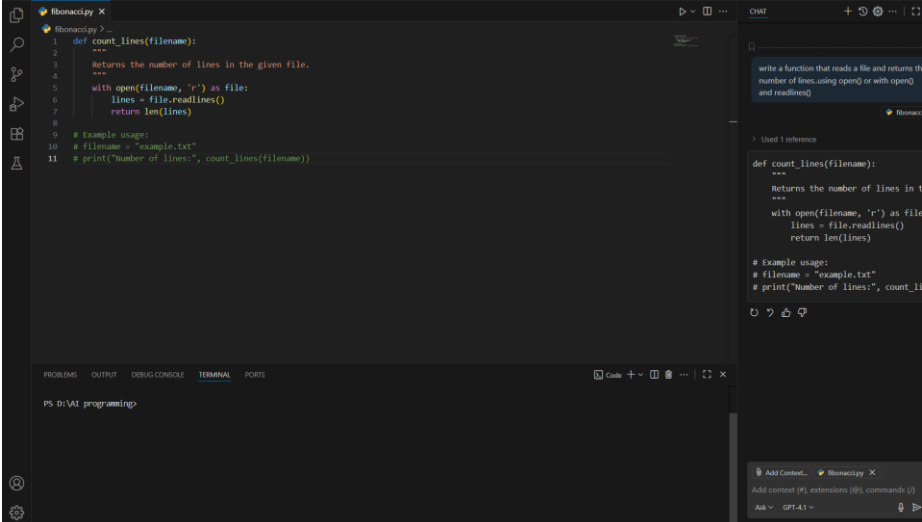
### Marketplace

Published	2021-06-29, 19:56:17
Last Released	2025-08-14, 07:18:30

### Categories

### 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.

```

1 def is_prime(n):
2     """
3     Returns True if n is a prime number, otherwise False.
4     """
5     if n <= 1:
6         return False
7     if n == 2:
8         return True
9     if n % 2 == 0:
10        return False
11    for i in range(3, int(n ** 0.5) + 1, 2):
12        if n % i == 0:
13            return False
14    return True
15
16 # Example usage:
17 num = int(input("Enter a number: "))
18 print("Is prime:", is_prime(num))

```

Terminal output:

```

PS D:\AI programming> python -u "D:\AI programming\fibonacci.py"
PS D:\AI programming> python -u "D:\AI programming\is_prime.py"
Enter a number: 2
Is prime: True
PS D:\AI programming>

```

### 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.

```

1 def reverse_string(s):
2     """
3     Returns the reversed version of the input string.
4     """
5     return s[::-1]
6
7 s = input("Enter a string to reverse: ")
8 print("Reversed string:", reverse_string(s))

```

Terminal output:

```

PS D:\AI programming> python -u "D:\AI programming\fibonacci.py"
Enter a string to reverse: dna
Reversed string: adn
PS D:\AI programming>

```

### 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

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
<b>Total</b>	<b>2.5 Marks</b>