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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
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CourseCode	24CS002PC215	CourseTitle	AI Assisted Coding
Year/Sem	II/I	Regulation	R24
Date and Day of Assignment	Week1 - Wednesday	Time(s)	
Duration	2 Hours	Applicable to Batches	24CSBTB01 To 24CSBTB39
AssignmentNumber: 1.3(Present assignment number)/24(Total number of assignments)			
Q.No.	Question	Expected Time to complete	
1	Lab 1: Environment Setup – GitHub Copilot and VS Code Integration Lab Objectives: <ul style="list-style-type: none"> 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

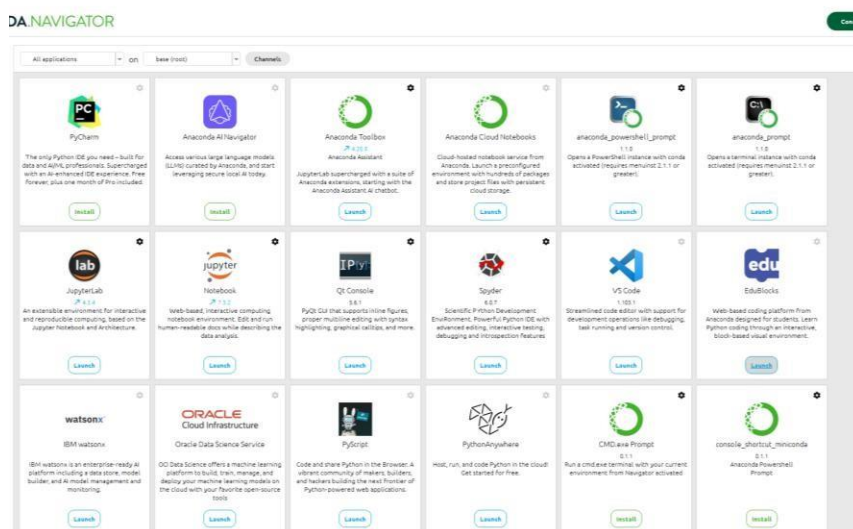
Lab Outcomes (LOs):


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.
-





GitHub Copilot

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

Your AI pair programmer

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GitHub Copilot - Your AI peer programmer

GitHub Copilot is an AI peer programming tool that helps you write code faster and smarter.

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Installation

Identifier	github.copilot
Version	1.359.0
Last Updated	2025-07-30, 22:31:11
Size	63.33MB

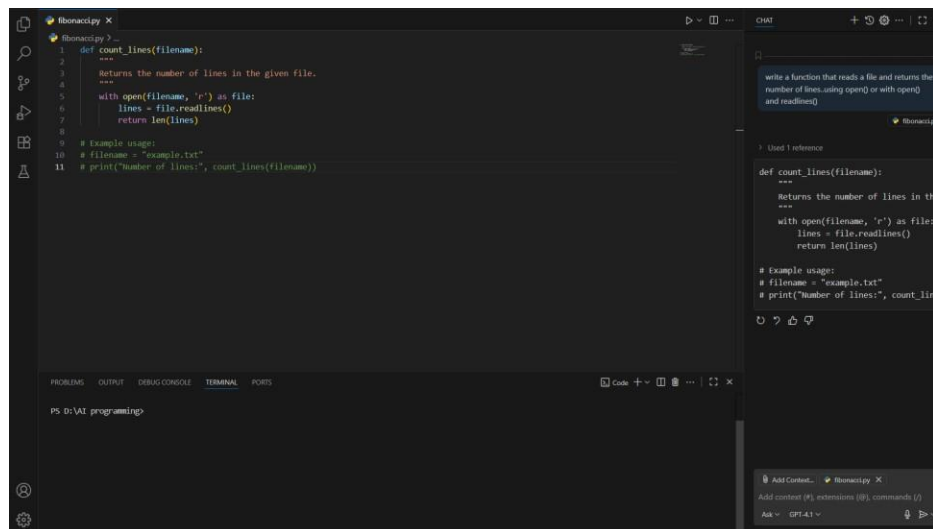
Marketplace

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))

```

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))

```

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

