SCHOOL OF COMPUTER SCIENCE AND ARTIFIC INTELLIGENCE				L DEPARTMENT OF COMPUTER SCIENCE ENGINEERING		
Prog	gramN	lame: <mark>B. Tech</mark>	Assignm	ent Type: Lab	AcademicYear:2025-202	
CourseCoordinatorName		Venkataramana Veeramsetty				
Instructor(	s)Nan	ne				
	•		Dr. V. Venkata	aramana (Co-ordin	ator)	
			Dr. T. Sampat	h Kumar		
			Dr. Pramoda P	atro		
			Dr. Brij Kisho	r Tiwari		
			Dr.J.Ravichan	der		
			Dr. Mohammand Ali Shaik			
			Dr. Anirodh K			
			Mr. S.Naresh			
			Dr. RAJESH V			
			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)			
CourseCod	le	24CS002PC215	CourseTitle	AI Assisted Cod	ling	
Year/Sem		II/I	Regulation	R24		
Date and D	-	Week1 - Tuesday	Time(s)			
Duration		2 Hours	Applicableto Batches	24CSBTB01 To	24CSBTB39	
Assignmen	tNum	iber:1.2(Present as	signment numbe	r)/ <b>24</b> (Total numbe	er of assignments)	
	1					
Q.No.	Que	Exped				
					dTime	
					to	
					comp	
	Lab	1: Environment Setup –	GitHub Copilot and	VS Code Integration		
					Week wedne	
1	Lab	Lab Objectives:  • To install and configure GitHub Copilot in Visual Studio Code.				

- 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):

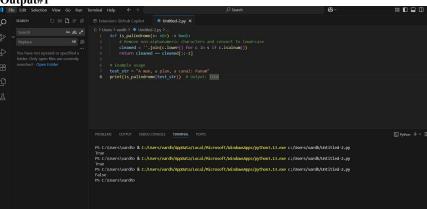
After completing this lab, students will be able to:

- 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

- Write a comment: # Function to check if a string is a valid palindrome (ignoring spaces and case) and allow Copilot to complete it.
- **Prompt:** write a python code to check wheather a given string is palindrome or not.

**Expected Output#1** 



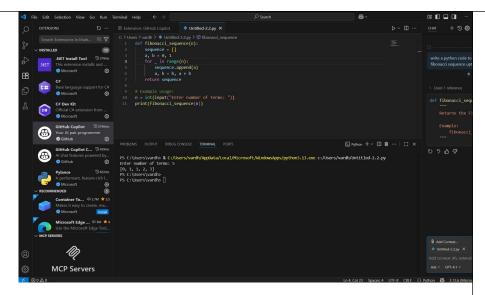
### Task Description#2

write a code in python language that returns fibonacci series upto n terms with only header and docstring

• Prompt with only a function header and docstring

#### **Expected Output#2**

**Prompt:** write a python code to find fibonacci sequence upto n terms.

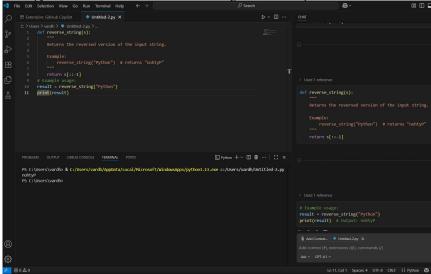


# Task Description#3

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

# Expected Output#3

**Prompt:** write a python code for funtion to reverse a string with an example.



### Task Description#4

• Generate a program that simulates a basic calculator (add, subtract, multiply, divide). Write the comment: # Simple calculator with 4 operations and let AI complete it.

### **Expected Output#4**

**Prompt:** write a python code that simulates a basic calculator (add, subtract, multiply, divide).

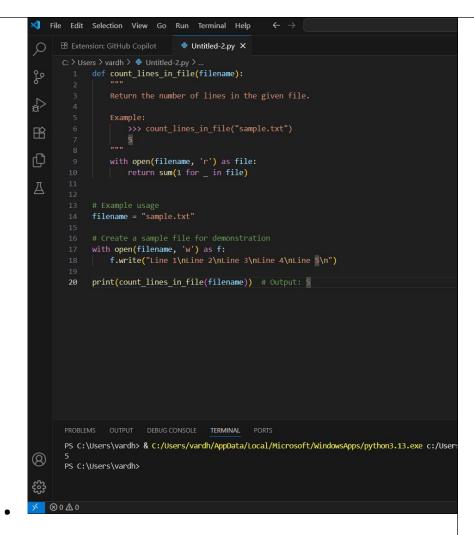
```
| Section | Sect
```

# Task Description#5

• Use a comment to instruct AI to write a function that reads a file and returns the number of lines..

# **Expected Output#5**

 Prompt:write a python code only for a funtion that reads a file and returns the number of lines



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
Task #1	0.5
Task #2	0.5
Task #3	0.5
Task #4	0.5
Task #5	0.5
Total	2.5 Marks