Name: Suthrapu Anjani

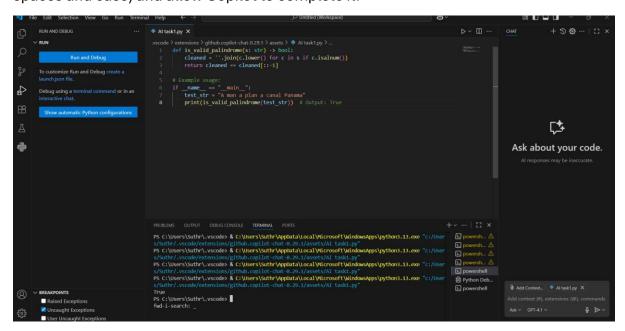
Roll No: 2403A51178

Batch No:09

## Assignment 1.2

### #Task 1

# Function to check if a string is a valid palindrome (ignoring spaces and case) and allow Copilot to complete it.



# Expected Output#1

• A function that correctly returns True for phrases like

"A man a plan a canal Panama"

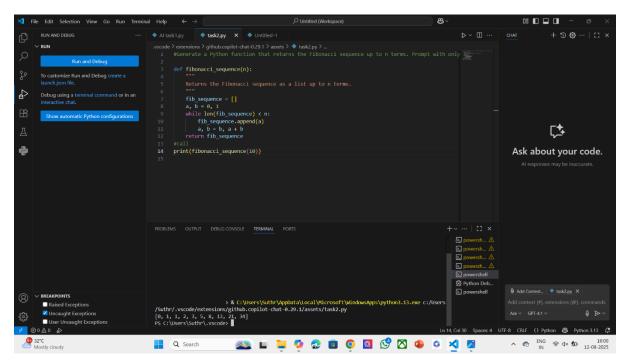
**Output: True** 

## #Task 2

Generate a Python function that returns the Fibonacci sequence up to n terms.

Prompt with only a function header and docstring.

# Code:



# Expected Output#2

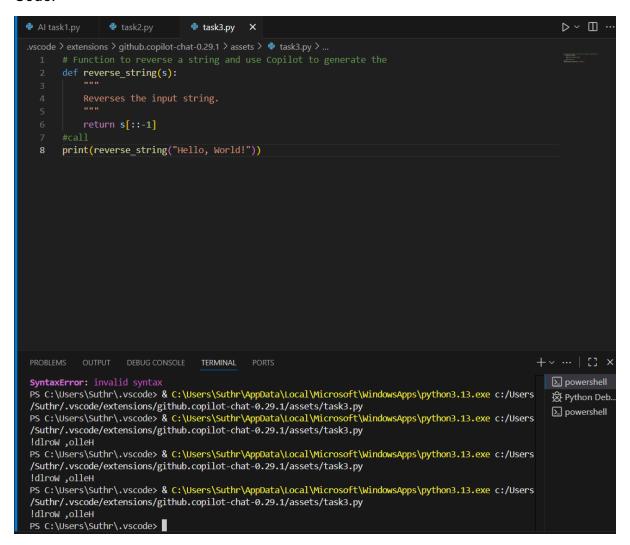
• AI completes the function logic using

loop or recursion with accurate output

Output: [0,1,1,2,3,5,8,13,21,34]

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

#### Code:



#### Expected Output#3

Auto-completed reverse function

Output: !dlrow ,olleH

### #Task 4

Generate a program that simulates a basic calculator (add, subtract, multiply, divide).

# Simple calculator with 4 operations and let AI complete it.

#### Code:

```
Al task1.py
                                                                                                                                        ▷ ~ □ ···
.vscode > extensions > github.copilot-chat-0.29.1 > assets > 🕏 Task4.py > ...
        def calculator(a, b, operation):
             if operation == "add":
             elif operation == "subtract":
             elif operation == "multiply":
                 return a * b
             elif operation == "divide":
      print(calculator(10, 5, "add"))
print(calculator(10, 5, "subtract"))
print(calculator(10, 5, "multiply"))
print(calculator(10, 5, "divide"))
print(calculator(10, 5, "modulus"))
                                                                                                                                  +~ ... | [] ×
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
/Suthr/.vscode/extensions/github.copilot-chat-0.29.1/assets/Task4.py
                                                                                                                                     Write the comment: # Simple calculator with 4 operations and let AI complete it
                                                                                                                                     ▶ powershell
SyntaxError: invalid syntax
PS C:\Users\Suthr\.vscode> & C:\Users\Suthr\AppData\Local\Microsoft\WindowsApps\python3.13.exe c:/Users /Suthr/.vscode/extensions/github.copilot-chat-0.29.1/assets/Task4.py
50
2.0
Invalid operation
PS C:\Users\Suthr\.vscode>
                                                                                                                                 Ln 2, Col 1 Spaces: 4
```

### **Expected Output#4**

• Fully working calculator with input/output and operator selection logic.

### Output:15

5

**50** 

2.0

#### #Task 5

Use a comment to instruct AI to write a function that

reads a file and returns the number of lines...

Code:

Code:

### **Expected Output#5**

Functional implementation using open() or with open() and readlines()

**Output: 4**