

AI Assisted Coding Lab Assignment (1.2)

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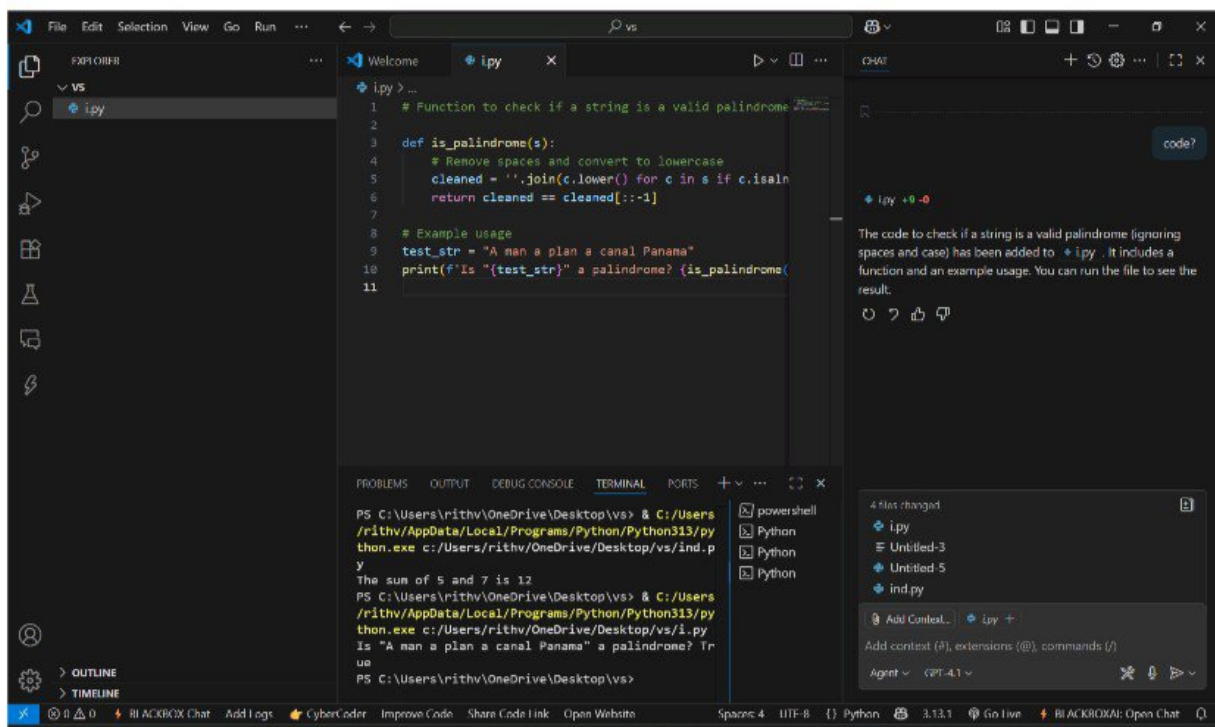
Section : CS-B09

Task 1:

Prompt used:

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

Code:

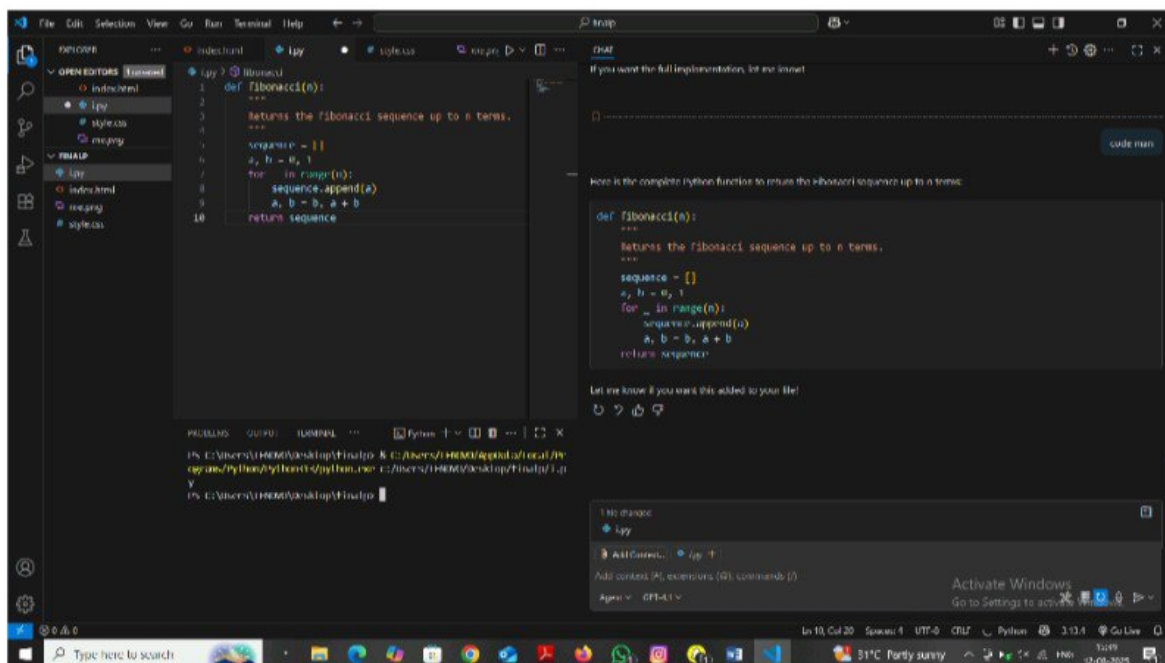


Task 2:

Prompt used:

Generate a Python function that returns the Fibonacci sequence up to n terms. Prompt with only a function header and docstring

Code:



The screenshot shows a Visual Studio Code editor with a Python file named 'fibonacci.py'. The code defines a function 'def fibonacci(n):' with a docstring 'Returns the fibonacci sequence up to n terms.' and implements the logic to generate the sequence. A chat window on the right displays the prompt: 'If you want the full implementation, let me know!' and 'Here is the complete python function to ensure the fibonacci sequence up to n terms.' The chat also shows the full implementation of the 'def fibonacci(n):' function. The bottom status bar indicates the file is at line 10, column 20, and the Python interpreter is set to 'Python 3.10.4'.

```
def fibonacci(n):  
    """  
    Returns the fibonacci sequence up to n terms.  
    """  
    sequence = []  
    a, b = 0, 1  
    for _ in range(n):  
        sequence.append(a)  
        a, b = b, a + b  
    return sequence
```

Chat

If you want the full implementation, let me know!

code man

Here is the complete python function to ensure the fibonacci sequence up to n terms.

```
def fibonacci(n):  
    """  
    Returns the fibonacci sequence up to n terms.  
    """  
    sequence = []  
    a, b = 0, 1  
    for _ in range(n):  
        sequence.append(a)  
        a, b = b, a + b  
    return sequence
```

Let me know if you want this added to your file!

1 No change

ipy

Add context (A), extensions (R), commands (S)

Open - C:\Users\HMM\AppData\Local\Programs\Python\Python310\python.exe - C:\Users\HMM\AppData\Local\Programs\Python\Python310\python.exe

Activate Windows
Go to Settings to activate Windows.

Line 10, Col 20 | Spaces: 4 | UTF-8 | Python 3.10.4 | Go Live

31°C Partly sunny | 12-08-2023

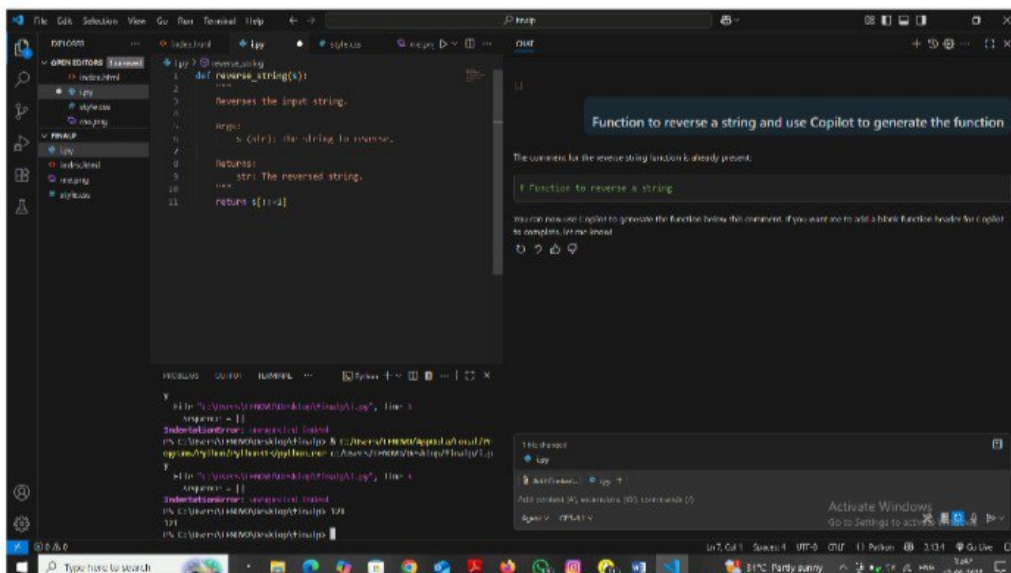
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\rithv\OneDrive\Desktop\vs> & C:/Users/rithv/AppData/Local/Programs/Python/Python313/python.exe c:/Users/rithv/OneDrive/Desktop/vs/i.py
PS C:\Users\rithv\OneDrive\Desktop\vs> & C:/Users/rithv/AppData/Local/Programs/Python/Python313/python.exe c:/Users/rithv/OneDrive/Desktop/vs/i.py
PS C:\Users\rithv\OneDrive\Desktop\vs> & C:/Users/rithv/AppData/Local/Programs/Python/Python313/python.exe c:/Users/rithv/OneDrive/Desktop/vs/i.py
PS C:\Users\rithv\OneDrive\Desktop\vs> 121
121
PS C:\Users\rithv\OneDrive\Desktop\vs>
```

Task 3:

Prompt used:

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

Code:

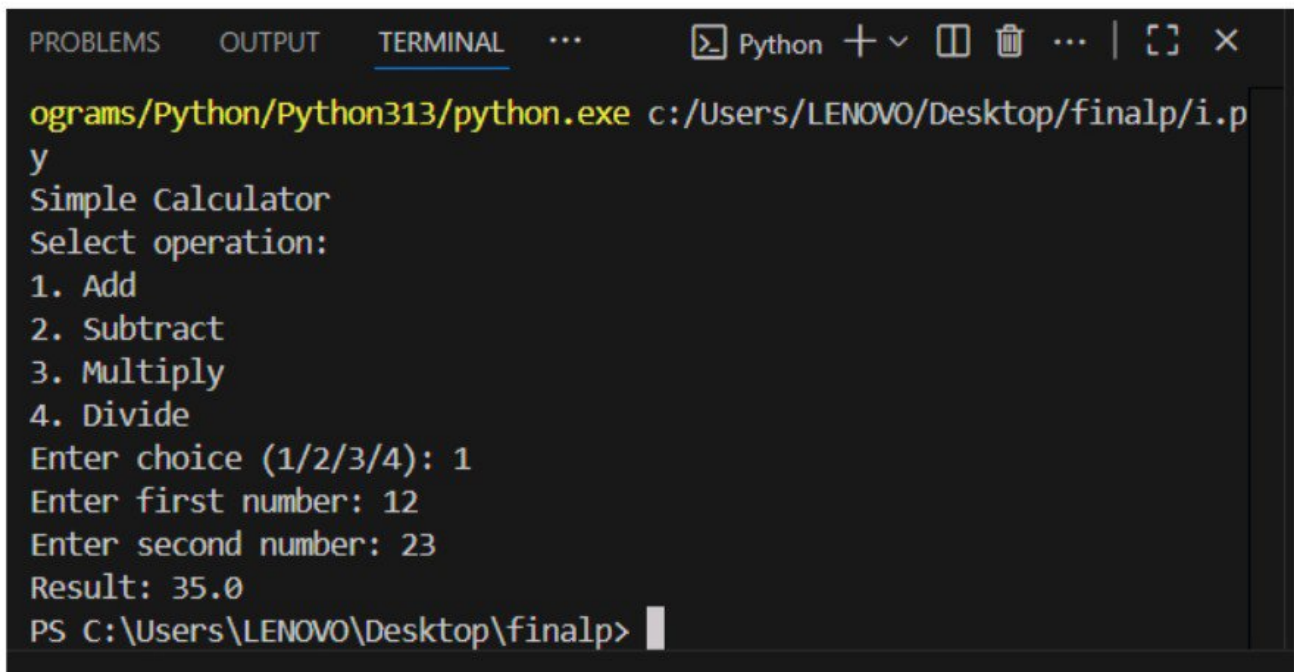
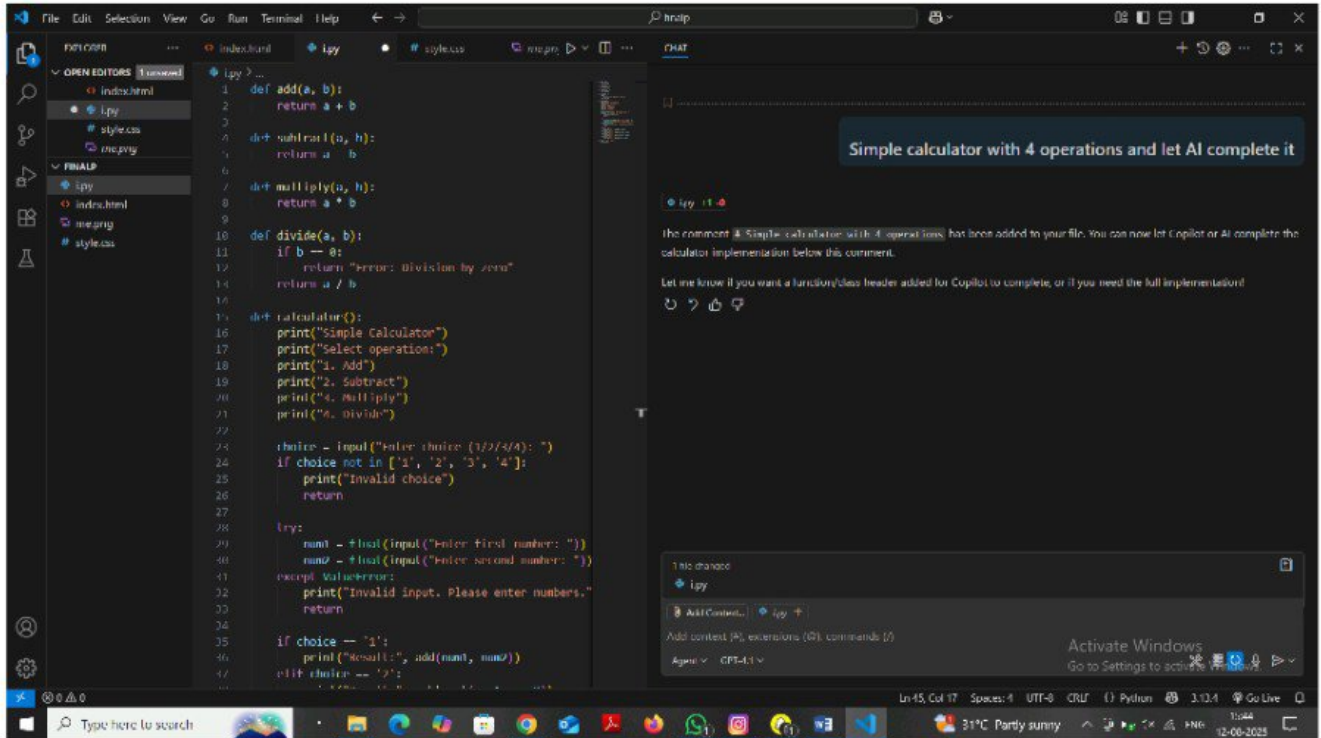


Task 4:

Prompt used:

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.

Code:



Task 5:

Prompt used:

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

code:

