

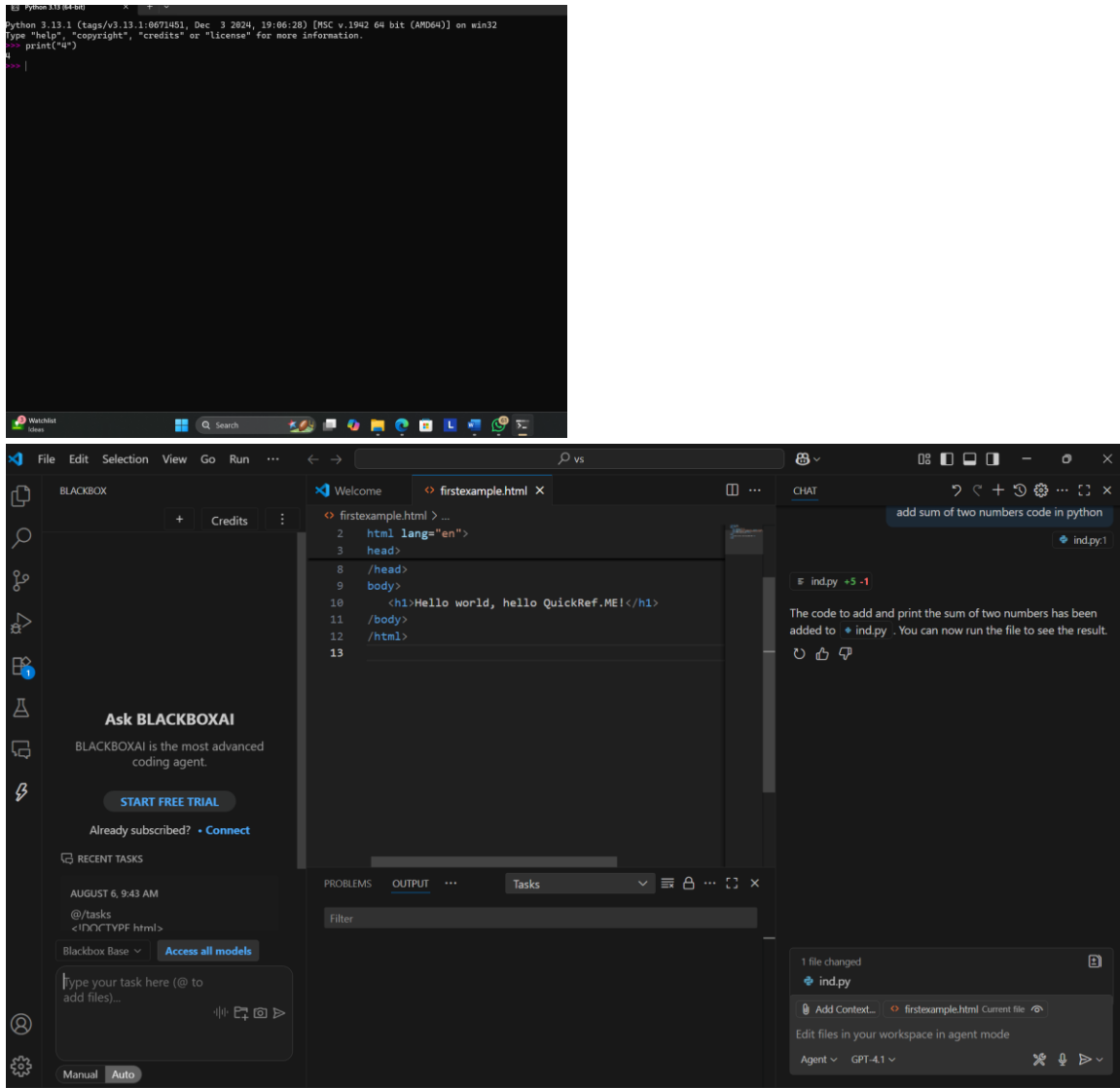
AI Assisted Coding Lab Assignment (1.4/24)

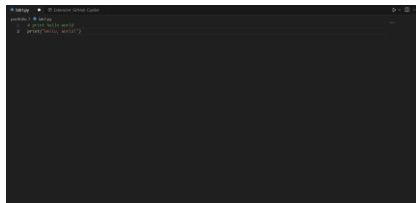
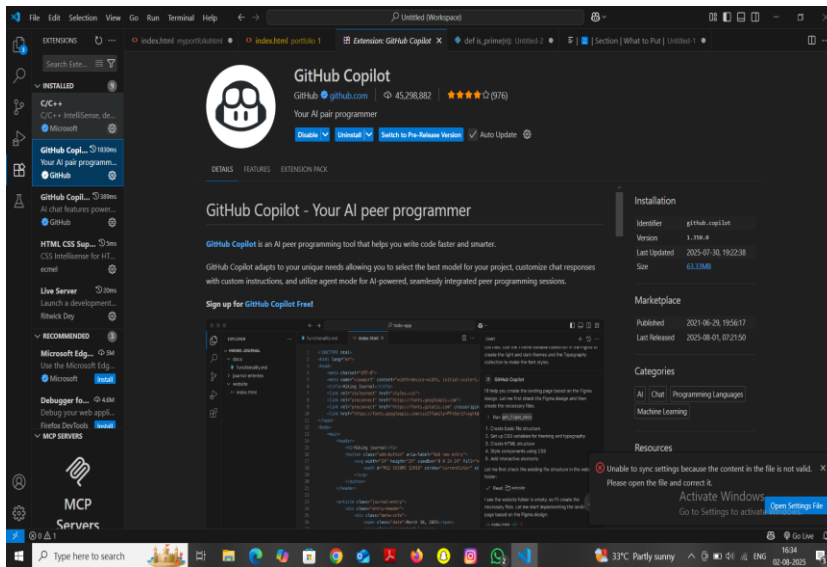
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Roll No : 2403A51185

Section : CS-B09

Task 1: Install python , vscode , github co-pilot





Sign in to GitHub

Username or email address


2403a51185@sru.edu.in

Password

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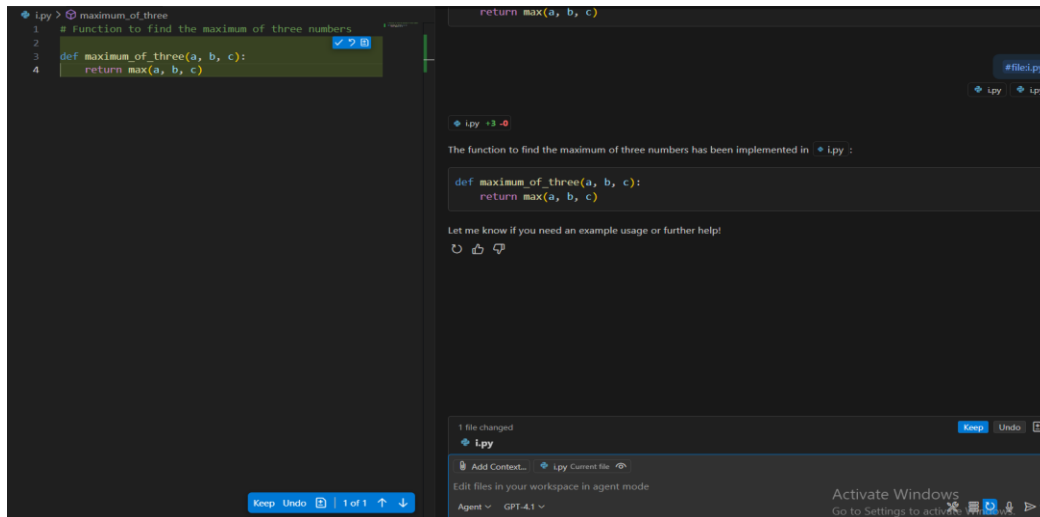
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Task 2: Maximum of Three Numbers

Prompt used:

#write a Function to find the maximum of three numbers

Code:



The screenshot shows a code editor with a dark theme. On the left, a file named 'maximum_of_three.py' is open, containing the following code:

```
1 # Function to find the maximum of three numbers
2
3 def maximum_of_three(a, b, c):
4     return max(a, b, c)
```

On the right, a chat window is visible. It shows a prompt: 'The function to find the maximum of three numbers has been implemented in * lpy :'. Below the prompt, the code is displayed:

```
def maximum_of_three(a, b, c):
    return max(a, b, c)
```

Below the code, there is a message: 'Let me know if you need an example usage or further help!'. At the bottom of the chat window, there is a status bar that says '1 file changed' and 'Keep Undo'. The bottom of the editor shows a footer with 'Agent - GPT-4.1' and 'Activate Windows Go to Settings to activate Windows'.

Explanation:

The function uses Python's built-in `max()` function to return the largest of the three inputs.

Sample Output:

Maximum is: 25

Task 3: Factorial (Recursive)

Prompt used:

write a Recursive function to calculate factorial

Code:

The screenshot shows a Jupyter Notebook with a dark theme. On the left, a code cell contains the following Python code:

```
1 # Function to find the maximum of three num
2
3 # Recursive function to calculate factorial
4 def factorial(n):
5     if n == 0 or n == 1:
6         return 1
7     else:
8         return n * factorial(n - 1)
```

On the right, a chat interface is visible. At the top, it says "Recursive function to calculate factorial" with a file icon and "ipy1-11". Below this, a message states: "The recursive function to calculate factorial is already implemented in your *ipy* file:". Underneath the message is a code block containing the same factorial function code as in the notebook cell. At the bottom of the chat, it says "If you need example usage or further changes, please let me know!" followed by three icons (refresh, thumbs up, thumbs down). At the very bottom of the interface, a status bar shows "1 file changed" and buttons for "Keep", "Undo", and a file icon. Below the status bar, there are tabs for "ipy" and "Add Context...", and a footer bar with "ipy Current file" and a file icon.

Explanation:

The function calls itself recursively until n becomes 1 or 0, which is the base case.

Sample Output:

Factorial of 5 is: 120

Task 4: Student Class

Prompt used:

write a prompt to Define a class Student with name, roll_no, marks and display method

Code:

```
1 |
2 |
3 | # Define a class Student with name, roll_no, marks a
4 | class Student:
5 |     def __init__(self, name, roll_no, marks):
6 |         self.name = name
7 |         self.roll_no = roll_no
8 |         self.marks = marks
9 |
10 |
11 |     def display(self):
12 |         print(f"Name: {self.name}")
13 |         print(f"Roll No: {self.roll_no}")
14 |         print(f"Marks: {self.marks}")
```

Define a class Student with name, roll_no, marks and display method

The `Student` class with `name`, `roll_no`, `marks`, and a `display` method has been added to your `ipy` file.

Let me know if you need an example of how to use this class or any further help!

1 file changed
ipy
Add Context... ipy Current file

Edit files in your workspace in agent mode

Agent GPT-4.1

Activate Windows
Go to Settings to activate Windows

Explanation:

This class defines a constructor (`__init__`) and a method `display()` to print the details of a student object.

Sample Output:

Name: Kasula poojitha

Roll No: 2403A51185

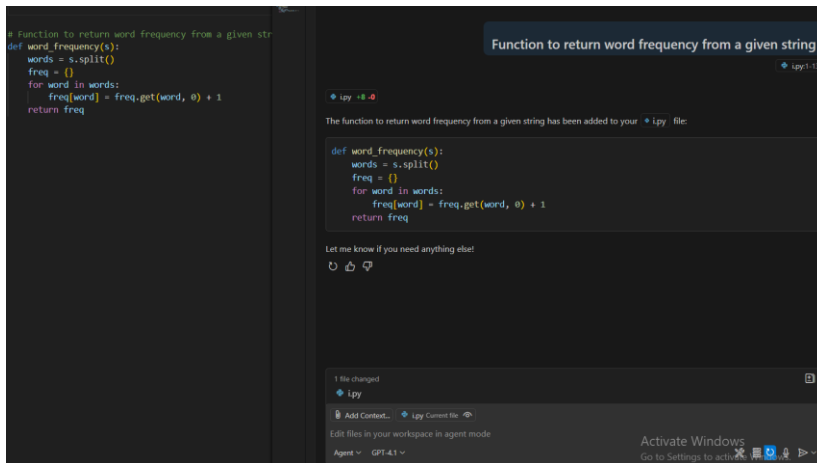
Marks: 89

Task 5: Word Frequency

Prompt used:

Function to return word frequency from a given string

Code:



Explanation:

The function splits the input string into words, converts them to lowercase, and uses a dictionary to count how many times each word appears.

Sample Output:

```
{'ai': 2, 'makes': 1, 'coding': 2, 'easier': 1, 'is': 1, 'fun': 1, 'with': 1}
```