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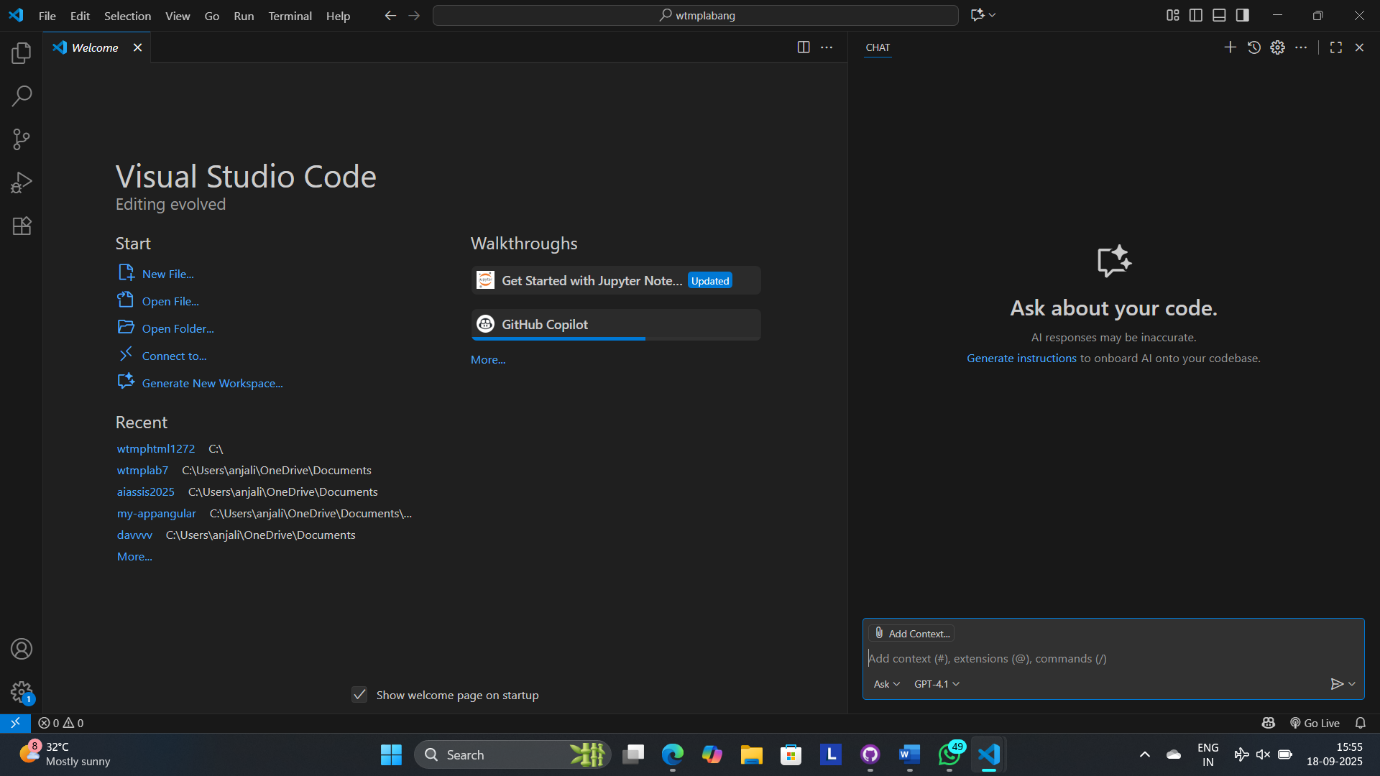
k.poojasri

Batch-11

Assignment-1.4

Task-1:

Install and configure GitHub Copilot in VS Code.



Task-2:

Prompt: Give a function in python that returns the maximum of three numbers that is entered by user.

Code:

def max\_of\_three():

a = float(input("Enter first number: "))

b = float(input("Enter second number: "))

c = float(input("Enter third number: "))

return max(a, b, c)

result = max\_of\_three()

print("The maximum number is:", result)

Output:

Enter first number: 10

Enter second number: 20

Enter third number: 5

The maximum number is: 20.0

A screenshot of a computer

AI-generated content may be incorrect.

Task-3:

Prompt:

create a recursive Python function that calculates the factorial of a  
number entered by user.

Code:

def factorial(n):

if n == 0 or n == 1:

return 1

else:

return n \* factorial(n - 1)

num = int(input("Enter a number to calculate its factorial: "))

print("The factorial of", num, "is:", factorial(num))

Output:

Enter a number to calculate its factorial: 5

The factorial of 5 is: 120

A screenshot of a computer

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Task-4:

Prompt:

Create a class named Student with attributes name, roll\_no, and marks. Add a method to display student details.

Code:

class Student:

def \_\_init\_\_(self, name, roll\_no, marks):

self.name = name

self.roll\_no = roll\_no

self.marks = marks

def display\_details(self):

print(f"Name: {self.name}")

print(f"Roll No: {self.roll\_no}")

print(f"Marks: {self.marks}")

student = Student("Alice", 101, 95)

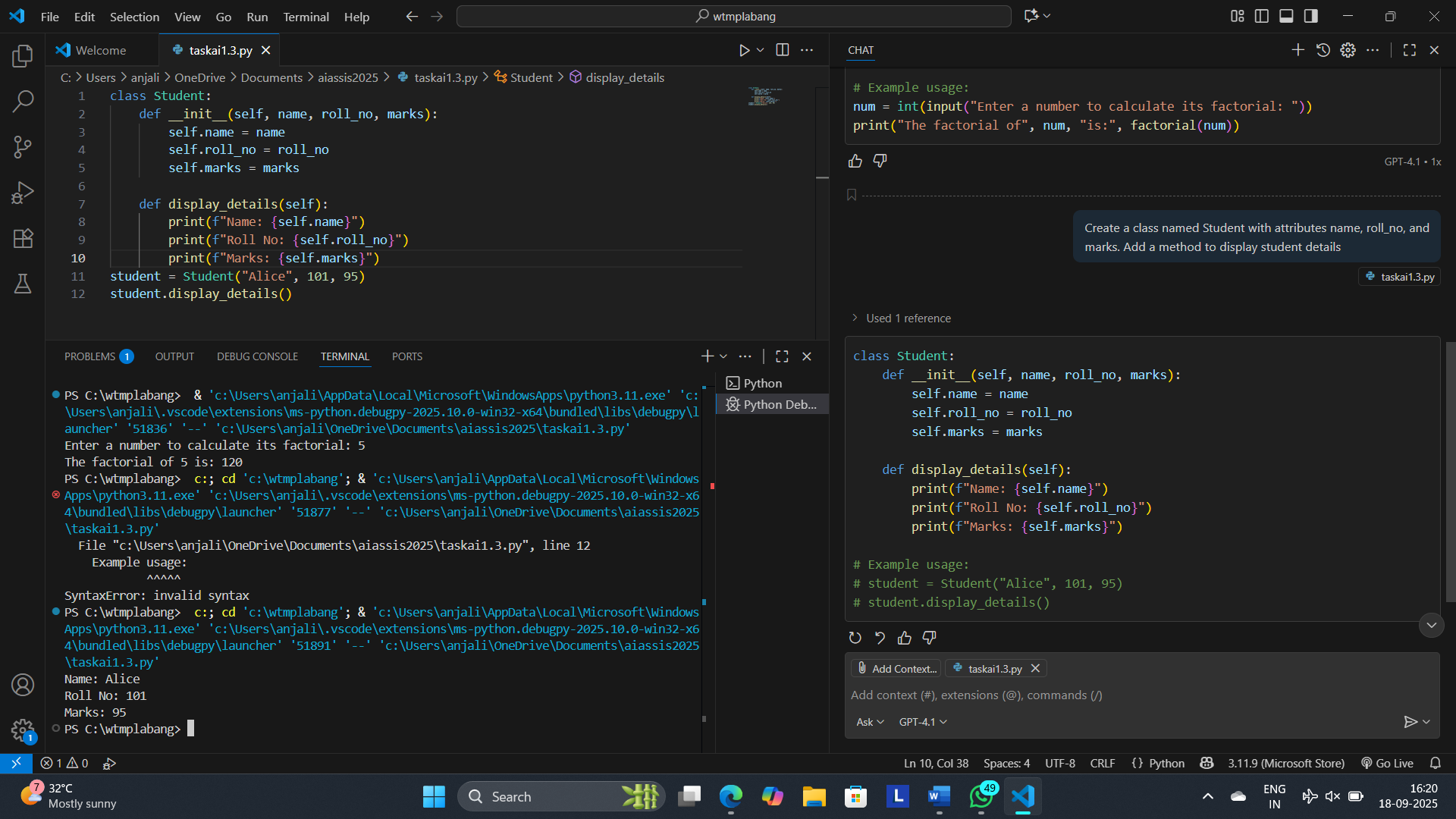
student.display\_details()

Output:

Name: Alice

Roll No: 101

Marks: 95



Task-5:

Prompt:

Generate a Python function that takes a string as input and returns the frequency of each word.

Code:

def word\_frequency(text):

words = text.split()

freq = {}

for word in words:

word = word.lower() # Optional: make it case-insensitive

freq[word] = freq.get(word, 0) + 1

return freq

# Example input:

# text = "This is a test. This test is simple."

# print(word\_frequency(text))

Output:

{'this': 2, 'is': 2, 'a': 1, 'test.': 1, 'test': 1, 'simple.': 1}

A screenshot of a computer screen

AI-generated content may be incorrect.