AI Assignment-5.1

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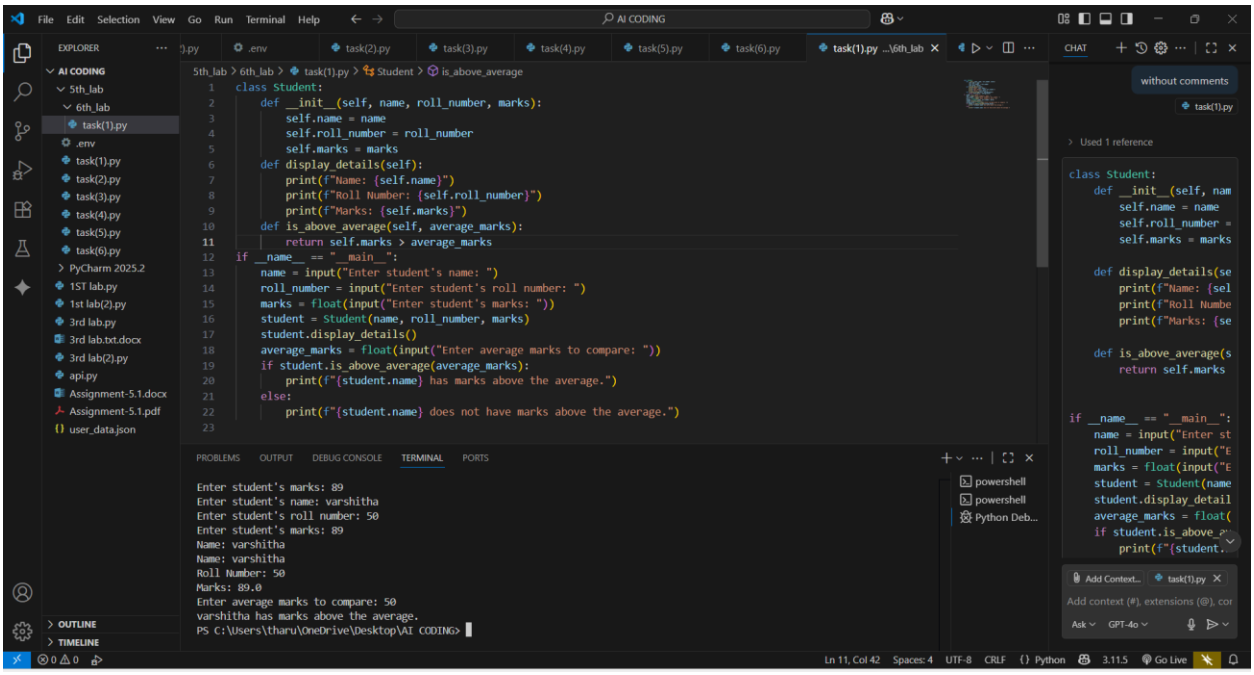
Batch: AIB03

Task 1: Start a Python class named Student with attributes name, roll_number, and marks. Prompt GitHub Copilot to complete methods for displaying details and checking if marks are above average

PROMPT: Start a Python class named Student with attributes name, roll number, and marks.

CODE:

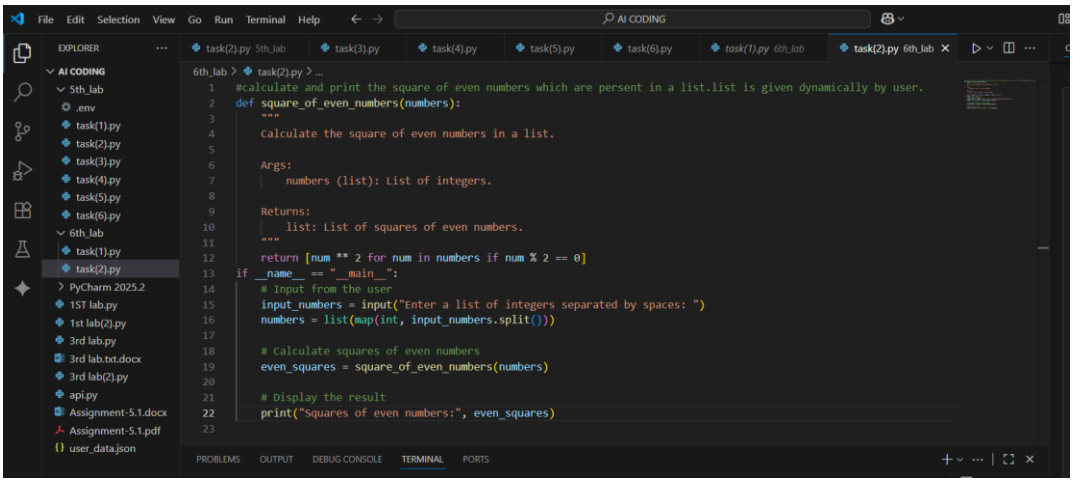


OP:

Task 2: Write the first two lines of a for loop to iterate through a list of numbers. Use a comment prompt to let Copilot suggest how to calculate and print the square of even numbers only.

Prompt: calculate and print the square of even numbers which are persent in a list.list is given dynamically by user

CODE:



```python
#calculate and print the square of even numbers which are persent in a list.list is given dynamically by user.
def square_of_even_numbers(numbers):
    """
    Calculate the square of even numbers in a list.

    Args:
        numbers (list): List of integers.

    Returns:
        list: List of squares of even numbers.
    """
    return [num ** 2 for num in numbers if num % 2 == 0]
if __name__ == "__main__":
    # Input from the user
    input_numbers = input("Enter a list of integers separated by spaces: ")
    numbers = list(map(int, input_numbers.split()))

    # Calculate squares of even numbers
    even_squares = square_of_even_numbers(numbers)

    # Display the result
    print("Squares of even numbers:", even_squares)
```

OP:

Observation: