AI-ASSISTED CODING

ASSIGNMENT-1.3

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Task Description#1

- Install and configure GitHub Copilot in VS Code. Take screenshots of each step. Expected Output#1
- Install and configure GitHub Copilot in VS Code. Take screenshots of each step.

Task2:

generate a is_prime() Python function, and send the code

Code with output:

Task-3:

Prompt:

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

Code with output:

Task-4:

Prompt:

Generate both recursive and iterative versions of a factorial function using comments

Code with output:

© Recursive Version:

Iterative Factorial Function:

Task-5:

Prompt:

send code for finding the largest number in a list and Assess code quality and efficiency, with a valid function with your review

Code with output:

```
# Function to find the largest number in a list

def find_max(numbers):
    """
    Returns the largest number in a list.

Args:
    numbers (list): A list of numeric values.

Returns:
    float or int: The largest number in the list.

Raises:
    ValueError: If the list is empty.
    """
    if not numbers:
        raise ValueError("Input list must not be empty.")

max_value = numbers[0]
    for num in numbers[1:]:
        if inum > max_value:
            max_value = num
        return max_value

# Example usage

data = [12, 45, 3, 67, 23, 89, 34]
    print(f"Largest number in the list: {find_max(data)}")

Pyth

Largest number in the list: 89
```