Day19--Practice Exercise Questions

1. Practice Exercise 1: Multiple Decorators

Write a Python program that applies **two decorators** to a function:

- One decorator should log the function name before execution.

- Another should time the execution of the function.
  Apply both decorators to a function that calculates the sum of numbers from 1 to n.

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2. Practice Exercise 2: StopIteration in Iterators

Modify the EvenNumbers iterator (from Assignment 2) so that when all even numbers up to n are exhausted, it raises a StopIteration exception.

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3. Practice Exercise 3: Simple TCP Client-Server Communication

Write a basic **TCP socket server** that listens for a client connection, receives a message, and sends a response. Also, create a client script that connects to the server and sends a "Hello Server!" message.

✅ **Expected Output Example:**
Client Sends: "Hello Server!"
Server Responds: "Hello Client!"