

Practice Questions for

Day-6

Closures

1. Question: Write a closure that captures a number and returns a function that adds that number to any given number.
2. Question: Create a closure that keeps track of how many times a function is called.

Decorators

3. Question: Write a decorator that prints "Start" before a function is called and "End" after the function is called.
4. Question: Implement a decorator that logs the execution time of a function.

Generators

5. Question: Create a generator function that yields the first n Fibonacci numbers.
6. Question: Write a generator that yields prime numbers up to a given limit.

Coroutines

7. Question: Write a coroutine that accumulates numbers sent to it and prints the total each time a value is sent.
8. Question: Create a coroutine that filters and processes items from a list, only allowing items greater than a certain value.

Iterators

9. Question: Implement an iterator class that iterates over a given range of numbers in reverse order.