

Day 19: Advanced Python - Decorators, Iterators & Socket Programming

1. Assignment Question 1: Implement a Custom Decorator

Create a Python decorator called execution_timer that measures the execution time of any function it decorates. Apply this decorator to a function that calculates the factorial of a number recursively.

Expected Output Example:

Factorial of 5 is: 120

Execution time: 0.000012 seconds

2. Assignment Question 2: Create a Custom Iterator

Write a Python class EvenNumbers that implements an iterator to generate even numbers up to a given n. The iterator should return even numbers one by one when iterated using a for loop.

Example Usage:

evens = EvenNumbers(10)

for num in evens:

print(num)

Expected Output:

0

2

4

6

8

10





Karnataka, Bangalore, 560049 Phone: +91 97419 82589, +91 97318 52489

Web site: aipoch.ai, mind2i.com