

Exercise: Compare Concurrency and Parallelism

Objective:

Write Python programs to compare **Concurrency** and **Parallelism** in handling a task. They'll simulate serving multiple tables in a restaurant and measure the time taken by each approach.

Instructions:

1. Part 1: Concurrency (Asyncio):

- Write a program that uses asyncio to simulate serving 5 tables.
- Each table takes 2 seconds to serve.
- Measure the total time taken.

2. Part 2: Parallelism (Multiprocessing):

- Write a program that uses multiprocessing to serve the same 5 tables.
- Each table still takes 2 seconds to serve.
- Measure the total time taken.

3. Compare the Results:

- Write your observations: Which method was faster? Why?