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Scenario 1: One cashier processes multiple self-checkout lanes

We simulate 4 self-checkout lanes, each handled by a single cashier.

Each lane processes a subset of the total number of customers.

Threads are used to simulate the parallel processing of customers in each lane.

Scenario 2: Each cashier processes one checkout lane

We simulate 5 checkout lanes, each handled by a separate cashier.

Each cashier processes an equal number of customers.

Threads are used to simulate the parallel processing of customers by each cashier.

Running the Program

Open a new C# console application project in your IDE (e.g., Visual Studio).

Copy and paste the code into the Program.cs file.

Run the program. You will see the output demonstrating the parallel processing of customers in each scenario.

This example uses basic threading to simulate parallelism. For more advanced parallel processing, you might consider using the Task parallel library (TPL) in .NET.