**🧪 Lab 7: Writing LINQ Queries**

**🎯 Goal:**

Use LINQ to filter, sort, and project data.

**✅ Steps:**

Replace Program.cs with:

csharp

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using RetailInventory;

using RetailInventory.Models;

using Microsoft.EntityFrameworkCore;

using var context = new AppDbContext();

// Filter & sort products > Rs.1000

var filtered = await context.Products

.Where(p => p.Price > 1000)

.OrderByDescending(p => p.Price)

.ToListAsync();

Console.WriteLine("🔎 Filtered & Sorted Products:");

foreach (var p in filtered)

Console.WriteLine($"{p.Name} - Rs.{p.Price}");

// Project into Name & Price

var productDTOs = await context.Products

.Select(p => new { p.Name, p.Price })

.ToListAsync();

Console.WriteLine("\n🧾 Product DTOs:");

foreach (var p in productDTOs)

Console.WriteLine($"{p.Name} - Rs.{p.Price}");

Run:

bash

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dotnet run

