**Lab 5: Retrieving Data from the Database .**

**Scenario: The store wants to display product details on the dashboard.**

**Objective: Use Find, FirstOrDefault, and ToListAsync to retrieve data.**

**Program.cs Code**

using System;  
using System.Threading.Tasks;  
using Microsoft.EntityFrameworkCore;  
  
namespace RetailInventory  
{  
 class Program  
 {  
 static async Task Main(string[] args)  
 {  
 using var context = new AppDbContext();  
  
 var products = await context.Products.ToListAsync();  
 Console.WriteLine("All Products:");  
 foreach (var p in products)  
 Console.WriteLine($"{p.Name} - ₹{p.Price}");  
  
 Console.WriteLine();  
  
 var product = await context.Products.FindAsync(1);  
 Console.WriteLine($"Product with ID 1: {product?.Name}");  
  
 Console.WriteLine();  
  
 var expensive = await context.Products.FirstOrDefaultAsync(p => p.Price > 50000);  
 Console.WriteLine($"First Expensive Product: {expensive?.Name}");  
 }  
 }

**Steps Performed**

1. Created categories and products objects in Program.cs.  
2. Used ToListAsync() to retrieve all product records.  
3. Used FindAsync() to get a product by ID.  
4. Used FirstOrDefaultAsync() to get the first product with price > 50000.  
5. Ran the application using dotnet run.  
6. Verified output in terminal.

**OUTPUT :**

