**LAB1:UNDERSTANDING ORM WITH A RETAIL INVENTORY SYSTEM**

**OBJECTIVE:**TO UNDERSTAND WHAT ORM IS AND HOW EF CORE

BRIDGE THE GAP BETWEEN C# OBJECTS AND RELATIONAL TABLES **.**

**PROGRAM.CS:**

using RetailInventory;

using RetailInventory.Models;

using Microsoft.EntityFrameworkCore;

using var context = new RetailContext();

// Add sample data (only first time)

if (!context.Categories.Any())

{

var electronics = new Category { Name = "Electronics" };

var groceries = new Category { Name = "Groceries" };

context.Categories.AddRange(electronics, groceries);

context.Products.AddRange(

new Product { Name = "Laptop", Stock = 10, Category = electronics },

new Product { Name = "TV", Stock = 5, Category = electronics },

new Product { Name = "Rice", Stock = 100, Category = groceries }

);

context.SaveChanges();

Console.WriteLine("Sample data added.");

}

// Show products

var products = context.Products.Include(p => p.Category).ToList();

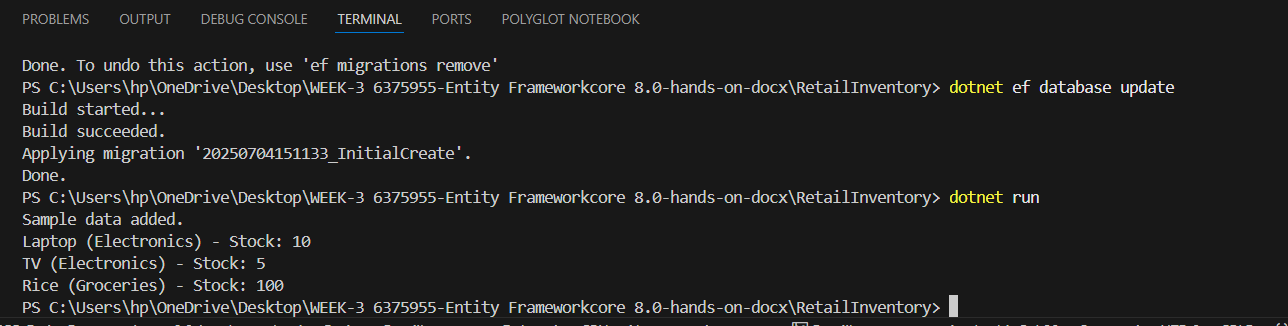
foreach (var product in products)

{

Console.WriteLine($"{product.Name} ({product.Category?.Name}) - Stock: {product.Stock}");

}

**OUTPUT:**

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