**LAB 4:Inserting Initial Data into the Database.**

**Objective:**

Use ef core to insert records using Addsync and savechangesync.

**Program.cs:**

using RetailInventory.Models;

using Microsoft.EntityFrameworkCore;

class Program

{

static async Task Main()

{

// Create a database context instance

using var context = new AppDbContext();

// Ensure database and tables are created

await context.Database.EnsureCreatedAsync();

// Check if data already exists to avoid duplicate insertions

if (!await context.Products.AnyAsync())

{

// Create new categories

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

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

// Add categories to database

await context.Categories.AddRangeAsync(electronics, groceries);

// Create sample products linked to categories

var product1 = new Product

{

Name = "Laptop",

Price = 75000,

Category = electronics

};

var product2 = new Product

{

Name = "Rice Bag",

Price = 1200,

Category = groceries

};

// Add products to database

await context.Products.AddRangeAsync(product1, product2);

// Save changes to database

await context.SaveChangesAsync();

Console.WriteLine(" Sample data inserted successfully.");

}

else

{

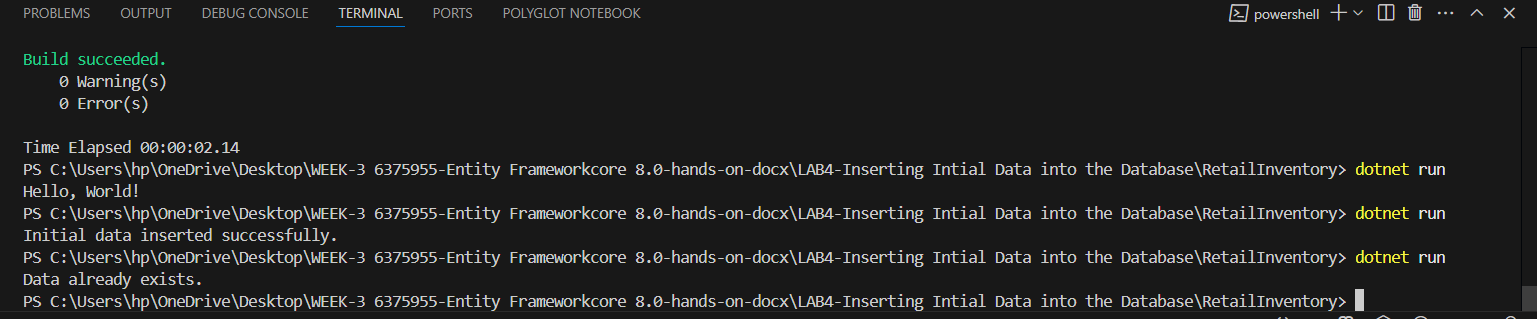
Console.WriteLine(" Data already exists. No action taken.");

}

}

}

**Output:**

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