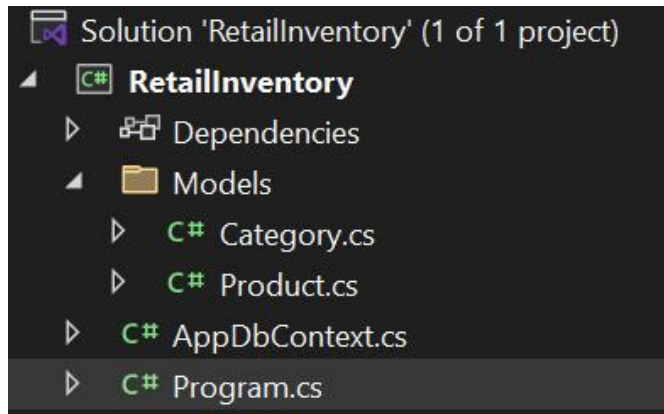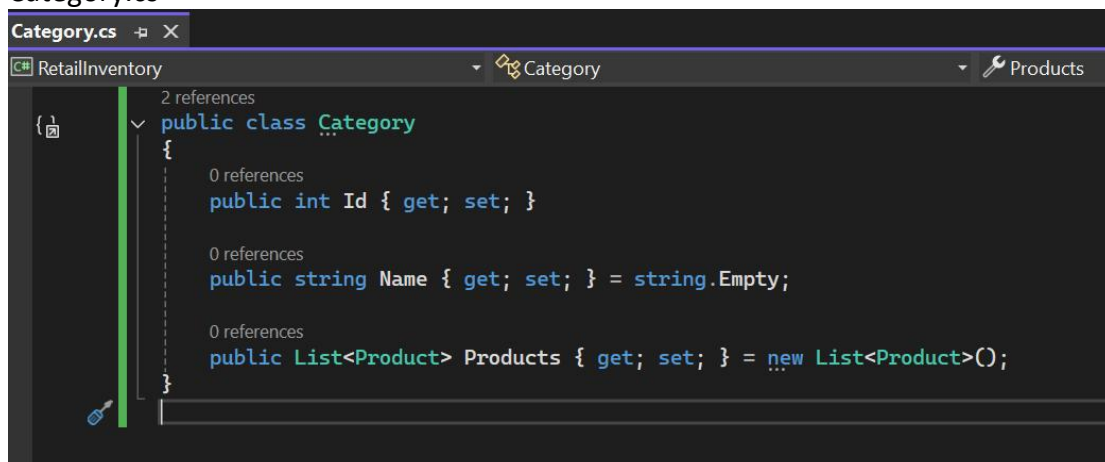# Lab 2: Setting Up the Database Context for a Retail Store

"Server=(localdb)\\MSSQLLocalDB;Database=RetailDb;Trusted_Connection=True;TrustServerCertificate=True;"
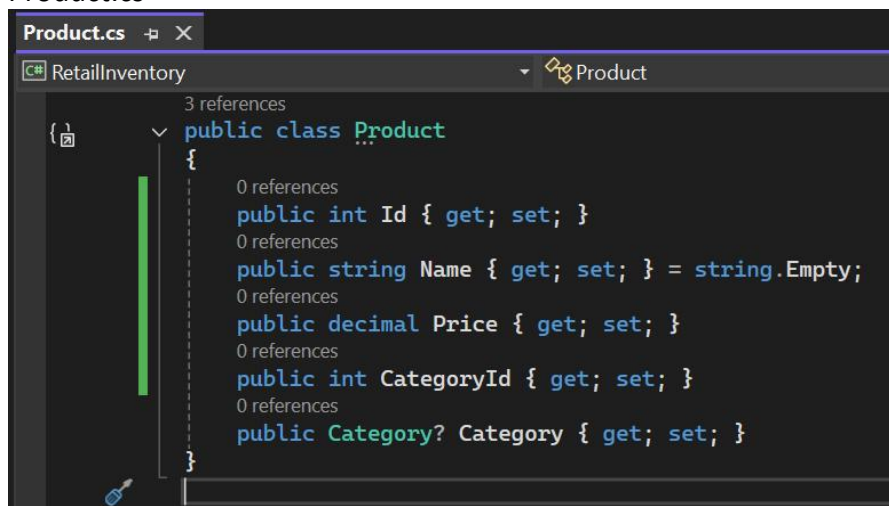
```
Solution 'RetailInventory' (1 of 1 project)
⊿ C# RetailInventory
   ▷ Dependencies
   ⊿ Models
      ▷ C# Category.cs
      ▷ C# Product.cs
   ▷ C# AppDbContext.cs
   ▷ C# Program.cs
```

1. Creating Models:

Category.cs

```csharp
public class Category
{
    public int Id { get; set; }

    public string Name { get; set; } = string.Empty;

    public List<Product> Products { get; set; } = new List<Product>();
}
```

Product.cs

```csharp
public class Product
{
    public int Id { get; set; }
    public string Name { get; set; } = string.Empty;
    public decimal Price { get; set; }
    public int CategoryId { get; set; }
    public Category? Category { get; set; }
}
```
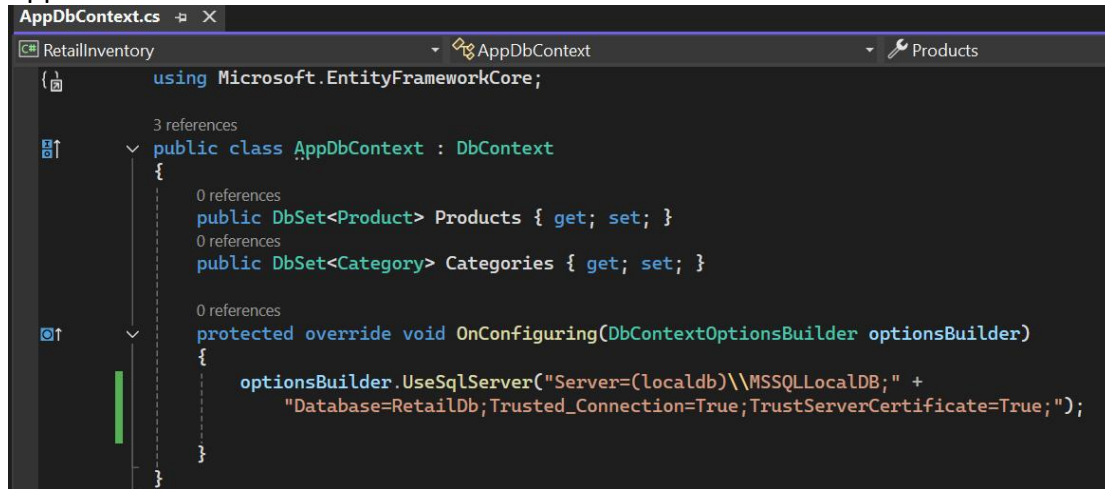
2. **Creating AppDbContext:**

AppDbContext.cs

```csharp
using Microsoft.EntityFrameworkCore;

public class AppDbContext : DbContext
{
    public DbSet<Product> Products { get; set; }
    public DbSet<Category> Categories { get; set; }

    protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
    {
        optionsBuilder.UseSqlServer("Server=(localdb)\\MSSQLLocalDB;" +
            "Database=RetailDb;Trusted_Connection=True;TrustServerCertificate=True;");
    }
}
```

Initialization

```
Database context initialized.

C:\Users\KIIT\OneDrive\Desktop\Cognizant\RetailInventory\RetailInventory\bin\Debug\net8.0\RetailInventory.exe (process 3
048) exited with code 0 (0x0).
Press any key to close this window . . .
```