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

Objective:

Define data models and configure EF Core's `DbContext` to interact with SQL Server.

Data Models:

Category.cs

```
public class Category {
    public int Id { get; set; }
    public string Name { get; set; }
    public List<Product> Products { get; set; }
}
```

Product.cs

```
public class Product {
    public int Id { get; set; }
    public string Name { get; set; }
    public decimal Price { get; set; }
    public int CategoryId { get; set; }
    public Category Category { get; set; }
}
```

AppDbContext Configuration:

```
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=localhost\\SQLEXPRESS;Database=RetailDb
;Trusted_Connection=True;Encrypt=False;");
    }
}
```

- This configuration enables EF Core to connect to SQL Server Express 2022 installed locally.