Note: All codes can be found at https://github.com/mgmarques/CSharp.

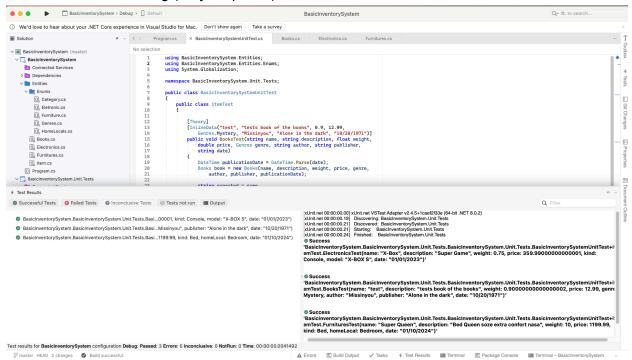
Exercise 1: Building a Simple Class Hierarchy for a Basic Inventory System

Statement-

Develop a basic inventory system that utilizes class hierarchies to manage different types of items in a store. Your system should include a base class named Item with common properties and specific derived classes for different item categories such as Book, Furniture, and Electronics. Demonstrate the use of constructors, properties, and method overriding.

Topics to Practice:

- Defining classes and objects
- Constructors and properties
- Inheritance and base classes
- Method overriding (Polymorphism)





```
0 - Bedroom
1 - Room
2 - Kitchen
3 - Bathroom
4 - Balcony
5 - Garden
6 - Corridor
Home Local: 0
PRICE TAGS:
Mart Atack
Autor: Mark Mars Genre: Comedy
Publisher: ACME
$ 9.99
 (Publication date: 10/10/1967)
X-Box Super Natural
(Console) - X-Box X
$ 599.99
(Manufacture date: 11/01/2023)
King of The Kings sleeping better
Kind: Bed Local: Bedroom
$ 1299.99
 (Manufacture date: 01/02/2024)
```

Press any key to close the app.

Exercise 2: Implementing Interfaces and Abstract Classes in a Shapes Drawing Application Statement:

Create a shapes drawing application that demonstrates the use of interfaces and abstract classes. Your application should define an IShape interface and an abstract class Shape that implements the interface. Implement concrete shape classes like Circle and Rectangle that inherit from Shape. Each shape should be able to Draw itself and calculate its Area and Perimeter.

Topics to Practice:

- Interfaces and abstract classes
- Implementing interface methods
- Polymorphism and method overriding
- Encapsulation

