Introduction to .NET – lab no. 3

Way of working: work in pair with one colleague.
Summary:
Keywords: inheritance, collections, repository pattern, LINQ, Query syntax method syntax
Prerequisites:
a) Create a Blank solution
b) Add a Class Library (.NET Core)
c) Add a Unit Test Project (.NET Core)
d) Add dependency between Test Project and Class Library
e) Use the Book class (and encapsulation).
Book Id
Title (max 100)
Year
Price
Genres (use an enumerator to manipulate fiction and non-fiction)
Exercise: s

- 1. Using the Book class.
- a. Create Book BookRepository.
- b. Expose and test the following behaviour using query syntax
 - i. RetriveAllBooks
 - ii. RetriveAllOrderByYearDescending
 - iii. RetriveAllOrderByYearAscending
 - $iv.\ Retrive All Order By Price Ascending$
 - v. RetriveAllOrderByPriceDescending
 - vi. RetriveAllBooksGroupedByGenre
- c. Expose and test the following behaviour using method syntax
 - i. RetriveAllBooks
 - ii. RetriveAllOrderByYearDescending
 - iii. RetriveAllOrderByYearAscending

- $iv.\ Retrive All Order By Price Ascending$
- v. RetriveAllOrderByPriceDescending
- $vi.\ Retrive All Books Grouped By Genres$

 d. For testing Populate an IEnumerable of Books 	s using SUT approach(minimum 1	.0 books)
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Note:			
Note.			

- 1. All exercises are mandatory.
- 2. You will receive your points at the end of the lab.
- 3. Working time: 80 minutes.