## Java module 3

## Exercises Day 1 (B)

1 - Classes and Objects	Create the classes
Instructions	We will create a program to manage a library.  Step 1: Create the Book class with its properties. Add at least properties to store:  • The title of the book. • The author of the book. • The ISBN number of the book. • The last customer that took the book.  Step 2: Create the Customer class with its properties. Add at least properties to store: • The customer's name. • The customer's birthdate. (Use java.util.LocalDate)
	Step 3: Modify the Book class to store a reference to a Customer (for the last customer that took the book).

2 - Classes and Objects	Adding methods
Instructions	Let's continue creating the program to manage a library.
	Step 1: Create the constructor method for the Book and Customer classes created in the previous exercise.
	Step 2: Create a main library class from where the Bookkeeper is able to add a book to the system. Note that a new book won't have been taken by any customer yet.
	Step 3: Run the program and take a look at the object that was created using the debugger.
Expected output	Book name: >>> Harry Potter Book author: >>> J. K. Rowling Book ISBN: >>> 978-0590353427 The book was added.

3 - Classes and Objects	Adding methods

Instructions	Let's continue creating the program to manage a library.
	Step 1: Modify all properties of the Book and Customer classes to be private. Create getter and setter methods for each property.
	Step 2: Create a method called "print" for the Book class that will print the book information with the following format:  Book title by Book author. ISBN: isbn-number.
	Step 3: Update the main library program such that it will print the book information after adding it.
	Step 4: Update the main library program such that it will allow the Bookkeeper to enter the information of the customer that will take the book.
	Step 3: Run the program and take a look at the objects that were created using the debugger.
Expected output	Book name:  >>> Harry Potter Book author:  >>> J. K. Rowling Book ISBN:  >>> 978-0590353427  The book was added. Book information: Harry Potter by J. K. Rowling. ISBN: 978-0590353427. Enter the customer name:  >>> John Green Enter the customer birth day:  >>> 20 Enter the customer birth month:  >>> 5 Enter the customer birth year:  >>> 1990 Book updated with customer information.