

# COSC 201 – Lab #2

## What to do with all these books?

Purpose: Implement a basic inheritance program.

Tasks:

- 1.) Start a new Java Project, called Library Project.
- 2.) Add a new class called Book. A book consists of an author, title, and ISBN number (all of which can never change once the book is created).
- 3.) Add a child class of Book called LibraryBook. A library book is a book that also contains a due date and the current holder of the book, which is null if the book is not currently checked out.
- 4.) Create a testing class called Library that will contain your main method and has functionality to support the following operations:
  - a. Add a library book to the library (an ArrayList of Books). Book information will be provided by the user.
  - b. Check out a library book by specifying its ISBN number, new holder, and the due date. ISBN number will be provided by the user and informative error messages should be included.
  - c. Determine the current holder of a library book given its ISBN number. ISBN number will be provided by the user and informative error messages should be included.
- 5.) Your main method should allow for user input and selection of any of the three methods noted in 4.
- 6.) Turn in your code via Blackboard by 11:59pm Tuesday. You may work in pairs for this lab.