## CS 202: IT Workshop I Assignment III

Consider a Library Management System and implement the following in Java. The variable/method names indicate their usual meanings. The methods (issue, return, etc.) will be invoked for one object at a time and this will be identified by the book ID which is passed as a parameter or can also be taken from user.

## Book

- bookld: int

- bookTitle: String

- yearOfPublication: int

authorName: String

- publisherName: String

- numberOfAvailableCopies: int

- totalCopies: int

<<constructor>> Book ()

<<constructor>> Book (totalCopies: int)

+ setDetails ()

+ setDetails (id: int, title: String, year: int, author: String, publisher:

String, count: int)
+ getDetails (id: int)
+ issue (id: int)

+ return (id: int)

- a) Create an array of objects (at least 5) for the Book class and set the details for each book object.
- b) Design a menu-driven interface for the user. User will choose an option from 1. Set Details,
- 2. Get Details, 3. Issue, 4. Return, 5. Exit etc. Based on the option entered by the user, appropriate operation should be performed by calling appropriate method of the class. [Hint: getDetails(int) shall be used to display the details of the object identified by bookId]
- c) You can assume additional instance variables, additional methods, static fields, etc. if needed / to make the application more realistic.