Department of Computer Science Software Engineering (CSC342) Tutorial 7 Solution (See Note at end)

issueDate
returnDate
fine

issueBook()
returnBook()

Borrower

LibCardNo

Library Card Expiry Date

Name

Email

Phone

Address

nb Out Standing Books

addBorrowe()

viewBorrower()

updateBorrower()

deleteBorrower()

*

Borrows



Book

Title ISBN

ISBN Author

isuueStatus

Price

addBook()

viewBook()

updateBook()

deleteBook()

Staff Member

Name

SSN

Address

Email

UserName

Password

addStaff()

viewStaff()

updateStaff()

deleteStaff()

Note:

- 1- To solve many to many multiplicity in coding, keep primary keys of both classes in Book-Borrower class
- 2- Staff Member does not have any association with other classes because we are not recording the detail of any association between staff member and other classes in our system.
- 3- Every class has getters and setters