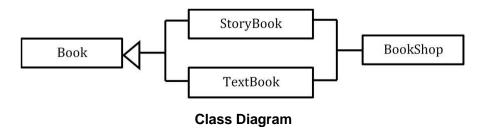
Course Title: Object Oriented Programming 2 (C#)

Lab Task: Developing a basic C# program with Association.

Look at the following class diagram and class notations carefully, and develop the program.



Book String isbn String bookTitle String authorName double price int availableQuantity Book() Book(String isbn, String bookTitle, String authorName, double price, int availableQuantity) void setIsbn(String isbn) void setBookTitle(String bookTitle) void setAuthorName(String authorName) void setPrice(double price) void setAvaiableQuantity(int availableQuantity) String getIsbn() String getBookTitle() String getAuthorName() double getPrice() int getAvailableQuantity() void addQuantity(int amount) void sellQuantity(int amount) void showDetails()

StoryBook

String category

StoryBook()

StoryBook(String isbn, String bookTitle, String authorName, double price, int availableQuantity, String category)

void setCategory(String category)
String getCategory()

TextBook

int standard

TextBook()

TextBook(String isbn, String bookTitle, String authorName, double price, int availableQuantity, int standard)

void setStandard(int standard)
int getStandard()

BookShop

String name

TextBook textBooks[]//size of array should be 100. StoryBook storyBooks[]//size of array should be 100.

BookShop()

BookShop(String name)

void setName(String name)
String getName()

boolean insertTextBook(TextBook tb) boolean removeTextBook(TextBook tb) TextBook searchTextBook(String isbn) void showAllTextBooks()

boolean insertStoryBook(StoryBook sb) boolean removeStoryBook(StoryBook sb) StoryBook searchStoryBook(String isbn) void showAllStoryBooks()

Start

The start class contains the main method. Inside the main method, create five objects of TextBook, five objects of StoryBook and one object of BookShop. Demonstrate all the methods and constructors.