

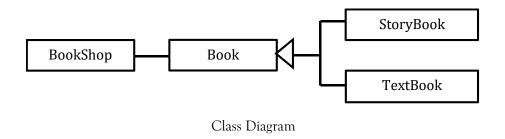
AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)
Department of Computer Science (CS)

Course Title: CSC1205: Object Oriented Programming 1 (JAVA)

Lab Task - 7: Developing a basic Java program with Inheritance, Association and Polymorphism.

Look at the following class notations and class diagram 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

Book books[]//size of array should be 100.

BookShop()

BookShop(String name)

void setName(String name)

String getName()

boolean insertBook(Book b)

boolean removeBook(Book b)

void showAllBooks()

Book searchBook(String isbn)

Start

The Start class contains the main method. Inside the main method, create Five objects of StoryBook, Five objects of TextBook and One object of BookShop. Demonstrate all the methods and constructors.