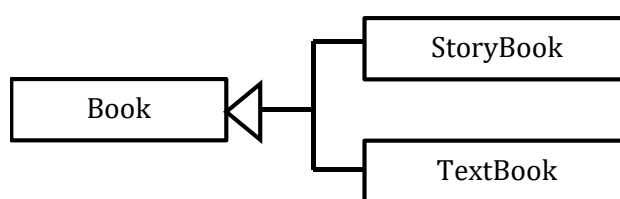# AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

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

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

Lab Task – 5 : Developing a basic Java program with Inheritance.

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

Class Diagram

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( )

Start
The start class contains the main method. Inside the main method, create two objects of StoryBook and two objects of TextBook. Demonstrate all the methods and constructors.