North South University
Department of Electrical and Computer Engineering
CSE 215L: Programming Language II Lab
Lab – 7B Topic(s): Inheritance

Lab Task:

1. Use the following UML diagrams to design Book, EBook and PaperBook classes. Here Book class has two child classes: EBook and PaperBook.

Book
- isbn: int - title: String - author: String - price: double
+ Book() + Book(isbn: int, title: String, author: String, price: double) + setIsbn(isbn: int): void + setTitle(title: String): void + setAuthor(author: String): void + setPrice(price: double): void + getIsbn(): int + getTitle(): String + getAuthor(): String + getPrice(): double **+ toString(): String .**

EBook
- downloadUrl: String - sizeMB: double // in MB
+ EBook() + EBook(downloadUrl: String, sizeMB: double) + setDownloadUrl(downloadUrl: String): void + setSizeMB(sizeMB: double): void + getAuthor(): String + getPrice(): double **+ toString(): String .**

PaperBook
- shippingWeight: double // in kg - inStock: bool
+ PaperBook() + PaperBook(shippingWeight: double, inStock: bool) + setShippingWeight(shippingWeight: double): void + setInStock(inStock: bool): void + getShippingWeight(): double + getInStock(): bool **+ toString(): String .**

Now write a test program that performs the following steps:
- Create an instance of EBook and PaperBook class respectively
- Print all their properties using the overridden toString() method