King Saud University College of Computer and Information Sciences Department of Computer Science CSC113 – Computer Programming II – Homework Interfaces– Spring 2015





Sellable interface:

- \circ Methods:
 - *sellingPrice()* : This method calculates price as follows:
 - *Textbook*: selling price = nbPages*2 + (year%2000) * 30
 - *LiteratureBook*: selling price = nbPages*2 + 2000 * 30
 - *display()* : print all the attributes.

Book class

- Attributes:
 - *title*: the title of the book.
 - *nbPages:* the number of pages int the book.
- \circ Methods:
 - Book (title: String, nbPgs: int): constructor.

TextBook class:

• Attributes:

- *year*: the year the book was published.
- Methods:
 - TextBook (title: String, nbPages: int, year: int): constructor.
 - *getYear()* : getter for year.

LitratureBook class:

- Attributes:
 - *type*: the type of the book.
- Methods:
 - LitratureBook (title: String, nbPages: int, type: String): constructor.
 - *getType():* getter for type

Store class:

- Attributes:
 - *name*: the name of the store.
- Methods:
 - Store (name: String, size: int): constructor.
 - *addBook(Book b)* : add a single book to the array
 - *addBooks(Book b[])*: add multiple books from b array to the **arBooks** array and returns the number of added books.
 - *displayAll()*: display all the books in the array
 - *countTextBooks()* : this method returns the number of all **TextBooks** in the array.
 - *averagePriceOfTextBooks(double s)*: this method returns the average of all the TextBooks with selling price greater than s.
 - *getLiteratureBook(t : String)* : this method returns the LitratureBook that has the same title as t. This method throws an IllegalArgumentException if no book was found.
 - *getTextBooks(y : year) :* This method returns an array contains all **TextBooks** with year less than y.
 - splitBooks(tb[]: TextBook, lb[]: LiteratureBook): This method will save all TextBook objects into tb and all LitratureBook objects into lb.

QUESTION: Translate into Java code All the classes and interface