package com.bookutil;

import java.util.Scanner;

import com.book.Book;

import com.book.BookStore;

import com.book.InvalidBookException;

public class BookUtil {

public static void main(String[] args) throws InvalidBookException {

Scanner sc = new Scanner(System.***in***);

String bookId, title, author, category;

float price;

BookStore bs = new BookStore();

for (int i = 0; i < 3; i++) {

System.***out***.print("Enter the book Id:");

bookId = sc.next();

System.***out***.print("Enter the Title:");

title = sc.next();

System.***out***.print("Enter the Author:");

author = sc.next();

System.***out***.print("Enter the Category:");

category = sc.next();

System.***out***.print("Enter the Price:");

price = sc.nextFloat();

if (((category.equals("Science")) ||

(category.equals("Fiction")) || (category.equals("Technology"))

|| (category.equals("Others"))) && (price >

0)

&& ((bookId.startsWith("B") &&

((bookId.length() == 4))))) {

Book b = new Book(bookId, title, author, category,

price);

bs.addBook(b);

System.***out***.println("book added successfully");

} else {

try {

throw new InvalidBookException();

} catch (Exception e) {

e.printStackTrace();

}

}

}

System.***out***.print("Enter the Book Title you want to search:");

title = sc.next();

bs.searchBook(title);

System.***out***.print("Enter the Book Author you want to search:");

author = sc.next();

bs.searchAuthor(author);

bs.displayAll();

}

}

package com.book;

import java.util.ArrayList;

import java.util.List;

public class Book {

private String bookId, title, author, category;

private float price;

public Book(String bookId, String title, String author, String

category, float price) {

super();

this.bookId = bookId;

this.title = title;

this.author = author;

this.category = category;

this.price = price;

}

public Book() {

}

public String getBookId() {

return bookId;

}

public void setBookId(String bookId) {

this.bookId = bookId;

}

public String getTitle() {

return title;

}

public void setTitle(String title) {

this.title = title;

}

public String getAuthor() {

return author;

}

public void setAuthor(String author) {

this.author = author;

}

public String getCategory() {

return category;

}

public void setCategory(String category) {

this.category = category;

}

public float getPrice() {

return price;

}

public void setPrice(float price) {

this.price = price;

}

*@Override*

public String toString() {

return "Book [bookId=" + bookId + ", title=" + title + "author=" + author + ", category=" + category

+ ", price=" + price + "]";

}

}

package com.book;

import java.util.ArrayList;

import java.util.List;

public class BookStore {

List<Book> l = new ArrayList();

public void addBook(Book b) {

l.add(b);

System.***out***.println("successfully added" + l);

}

public void searchBook(String title) {

for (Book b : l) {

if (b.getTitle().equals(title)) {

System.***out***.println(b);

}

}

}

public void searchAuthor(String author) {

for (Book b : l) {

if (b.getAuthor().equals(author)) {

System.***out***.println(b);

}

}

}

public void displayAll() {

for (Book b : l) {

System.***out***.println(b);

}

}

}

package com.book;

public class InvalidBookException extends Exception {

public InvalidBookException() {

// **TODO** Auto-generated constructor stub

}

*@Override*

public String toString() {

return "InvalidBookException";

}

}