オブジェクト指向プログラミング No.9

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ソースコード

MultilingualBook.java

class BookInfo{

protected String author;

protected String title;

protected String publisher;

protected int pYear;

BookInfo(){}

BookInfo(String author, String title, String publisher, int pYear){

this.author = author;

this.title = title;

this.publisher = publisher;

this.pYear = pYear;

}

void setAuthor(String author){

this.author = author;

}

void setTitle(String title){

this.title = title;

}

void setPublisher(String publisher){

this.publisher = publisher;

}

void setPYear(int pYear){

this.pYear = pYear;

}

String getAuthor(){

return author;

}

String getTitle(){

return title;

}

String getPublisher(){

return publisher;

}

int getPYear(){

return pYear;

}

void showBook(){

System.out.println("著者名: " + author);

System.out.println("題名: " + title);

System.out.println("出版社: " + publisher);

System.out.println("出版年: " + pYear);

}

}

class MultilingualBook extends BookInfo {

private String language;

private boolean trans = false;

private String translater;

private String transBook;

private String transPub;

MultilingualBook(){}

MultilingualBook(String author, String title, String publisher, int pYear, String language, boolean trans, String translater, String transBook, String transPub){

super(author, title, publisher, pYear);

this.language = language;

if (trans){

this.trans = trans;

this.translater = translater;

this.transBook = transBook;

this.transPub = transPub;

}

}

void setlanguage(String language){

this.language = language;

}

void settrans(boolean trans){

this.trans = trans;

}

void settranslater(String translater){

this.translater = translater;

}

void settransBook(String transBook){

this.transBook = transBook;

}

void settransPub(String transPub){

this.transPub = transPub;

}

String getlanguage(){

return language;

}

boolean gettrans(){

return trans;

}

String gettranslater(){

return translater;

}

String gettransBook(){

return transBook;

}

String gettransPub(){

return transPub;

}

void showBook(){

super.showBook();

System.out.println("言語: " + language);

System.out.println("訳書の有無: " + trans);

System.out.println("訳者名: " + translater);

System.out.println("訳書名: " + transBook);

System.out.println("訳書出版社: " + transPub);

}

}

BookTester.java

public class BookTester{

public static void main(String[] args){

MultilingualBook a1 = new MultilingualBook("Victor Hugo", "Les Miserables", "A.laroix,Verboeck-hoven&Ce.", 1862, "仏語", true, "豊島与志雄", "レ・ミゼラブル", "岩波出版");

MultilingualBook a2 = new MultilingualBook("Lewis Carroll", "Alice’s Adventures in Wonderland", "MacmillanPublishers", 1865, "英語", true, "高山宏", "不思議の国のアリス", "東京図書");

MultilingualBook a3 = new MultilingualBook("Albert Camus", "L'Etranger", "Edications Galimard", 1942, "仏語", true, "窪田啓作", "異邦人", "新潮文庫");

MultilingualBook a4 = new MultilingualBook("J.D.Salinger", "The Catcher in the Rye", "Little, Brown and Company", 1951, "英語", true, "野崎孝", "ライ麦畑で捕まえて", "白水社");

MultilingualBook a5 = new MultilingualBook("Antoine de SaintExupery ", "Le Petit Prince", "Reynal and Hitchcock", 1943, "仏語", true, "内藤濯", "星の王子さま", "岩波書店");

a1.showBook();

a2.showBook();

a3.showBook();

a4.showBook();

a5.showBook();

}

}

実行結果

著者名: Victor Hugo

題名: Les Miserables

出版社: A.laroix,Verboeck-hoven&Ce.

出版年: 1862

言語: 仏語

訳書の有無: true

訳者名: 豊島与志雄

訳書名: レ・ミゼラブル

訳書出版社: 岩波出版

著者名: Lewis Carroll

題名: Alice’s Adventures in Wonderland

出版社: MacmillanPublishers

出版年: 1865

言語: 英語

訳書の有無: true

訳者名: 高山宏

訳書名: 不思議の国のアリス

訳書出版社: 東京図書

著者名: Albert Camus

題名: L'Etranger

出版社: Edications Galimard

出版年: 1942

言語: 仏語

訳書の有無: true

訳者名: 窪田啓作

訳書名: 異邦人

訳書出版社: 新潮文庫

著者名: J.D.Salinger

題名: The Catcher in the Rye

出版社: Little, Brown and Company

出版年: 1951

言語: 英語

訳書の有無: true

訳者名: 野崎孝

訳書名: ライ麦畑で捕まえて

訳書出版社: 白水社

著者名: Antoine de SaintExupery

題名: Le Petit Prince

出版社: Reynal and Hitchcock

出版年: 1943

言語: 仏語

訳書の有無: true

訳者名: 内藤濯

訳書名: 星の王子さま

訳書出版社: 岩波書店