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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 13**

**Aim**

Write a program has class Publisher, Book, Literature and Fiction. Read the information and print the details of books from either the category, using inheritance.

**Procedure**

import java.util.Scanner;

class Publisher{

int publisher\_id;

String publisher\_name;

Publisher(int publisher\_id, String publisher\_name){

this.publisher\_id= publisher\_id;

this.publisher\_name= publisher\_name;

}

}

class Book extends Publisher{

int book\_id;

String book\_name;

Book(int publisher\_id, String publisher\_name, int book\_id, String book\_name) {

super(publisher\_id, publisher\_name);

this.book\_id= book\_id;

this.book\_name= book\_name;

}

}

class Literature extends Book{

int literature\_id;

String literature\_theme;

Literature(int publisher\_id, String publisher\_name, int book\_id, String book\_name, int literature\_id, String literature\_theme) {

super(publisher\_id, publisher\_name, book\_id, book\_name);

this.literature\_id= literature\_id;

this.literature\_theme= literature\_theme;

}

void displayDetails() {

System.out.println("The publisher ID of the book is: " + this.publisher\_id);

System.out.println("The publisher name of the book is: " + this.publisher\_name);

System.out.println("The Book ID of the book is: " + this.book\_id);

System.out.println("The Book name of the book is: " + this.book\_name);

System.out.println("The Literature ID of the book is: " + this.literature\_id);

System.out.println("The Literature theme of the book is: " + this.literature\_theme);

}

}

class Fiction extends Book{

int fiction\_id;

String fiction\_theme;

Fiction(int publisher\_id, String publisher\_name, int book\_id, String book\_name, int fiction\_id, String fiction\_theme) {

super(publisher\_id, publisher\_name, book\_id, book\_name);

this.fiction\_id= fiction\_id;

this.fiction\_theme= fiction\_theme;

}

void displayDetails() {

System.out.println("The publisher ID of the book is: " + this.publisher\_id);

System.out.println("The publisher name of the book is: " + this.publisher\_name);

System.out.println("The Book ID of the book is: " + this.book\_id);

System.out.println("The Book name of the book is: " + this.book\_name);

System.out.println("The Fiction ID of the book is: " + this.fiction\_id);

System.out.println("The Fiction theme of the book is: " + this.fiction\_theme);

}

}

public class BookInheritance {

public static void main(String[] args) {

Literature literature= new Literature(10,"Robert Kiyozaki",200,"Rich Dad Poor Dad",2001,"Drama");

Fiction fiction= new Fiction(101, "F. Scott Fitzgerald", 301, "The Great Gatsby", 301, "Fantasy-Fiction");

literature.displayDetails();

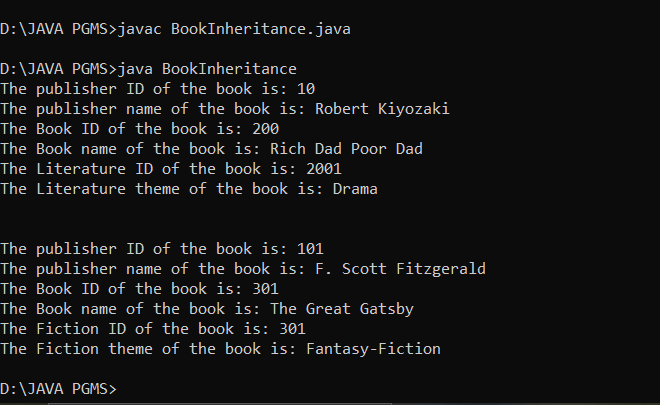
System.out.println("\n");

fiction.displayDetails();

}

}

**Output Screenshot**

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