

OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 14

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);  
    }  
}
```

Name: Vishnu Vijayakumar

Roll No:53

Batch: MCA B

Date:18/05/2022

```
        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");
```

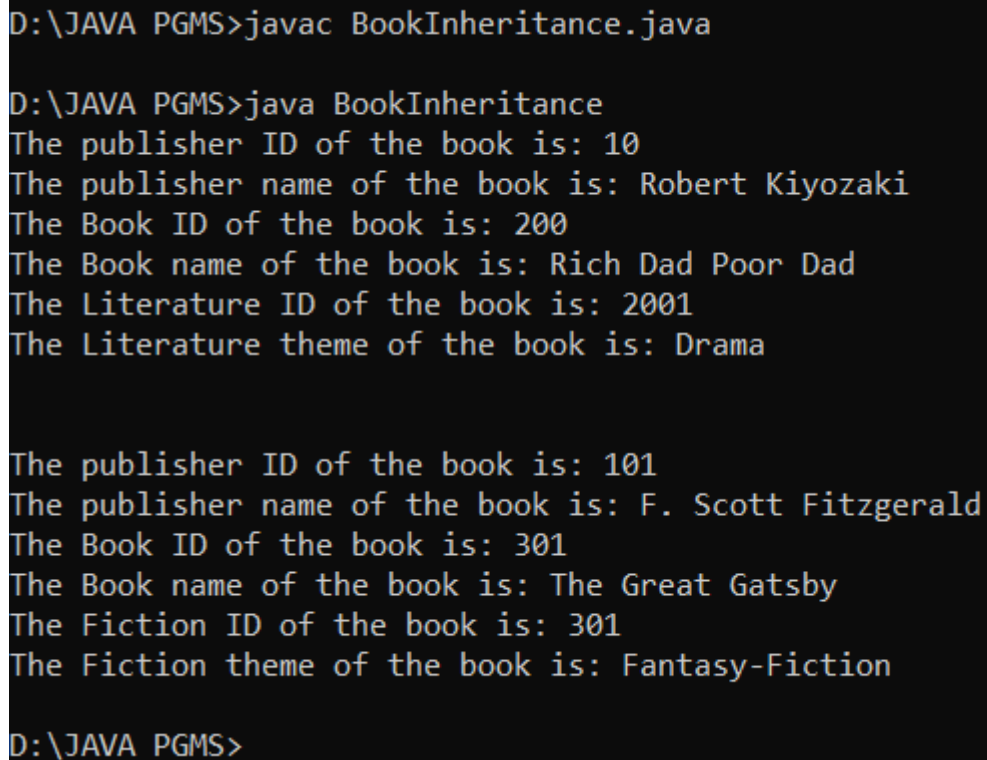
```
        Fiction fiction= new Fiction(101, "F. Scott Fitzgerald", 301, "The Great Gatsby",  
301, "Fantasy-Fiction");
```

```
        literature.displayDetails();
```

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

```
        fiction.displayDetails();  
    }  
}
```

Output Screenshot



The screenshot shows a command prompt window with the following text:

```
D:\JAVA PGMS>javac BookInheritance.java  
  
D:\JAVA PGMS>java BookInheritance  
The publisher ID of the book is: 10  
The publisher name of the book is: Robert Kiyozaki  
The Book ID of the book is: 200  
The Book name of the book is: Rich Dad Poor Dad  
The Literature ID of the book is: 2001  
The Literature theme of the book is: Drama  
  
The publisher ID of the book is: 101  
The publisher name of the book is: F. Scott Fitzgerald  
The Book ID of the book is: 301  
The Book name of the book is: The Great Gatsby  
The Fiction ID of the book is: 301  
The Fiction theme of the book is: Fantasy-Fiction  
  
D:\JAVA PGMS>
```