OBJECT ORIENTED PROGRAMMING LAB

Name: Vishnu Vijayakumar

Roll No:53

Batch: MCA B

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Experiment No.: 14

Aim

Create classes Student and Sports. Create another class Result inherited from Student and Sports. Display the academic and sports score of a student.

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

```
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>
```