

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.

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Procedure

```
import java.util.Scanner;

class Publisher{
    String publisher;
    Publisher(String pub){
        this.publisher=pub;
    }
}

class Book extends Publisher{
    String book;
    Book(String pub,String boo){
        super(pub);
        book=boo;
    }
}

class Literature extends Book{
    String category;
    Literature(String pub, String boo){
        super(pub, boo);
```

```
}  
void display(){  
    System.out.println("Publisher :"+publisher);  
    System.out.println("Book :"+book);  
}  
}  
class Fiction extends Book{  
    Fiction(String pub, String boo){  
        super(pub, boo);  
    }  
    void display(){  
        System.out.println("Publisher :"+publisher);  
        System.out.println("Book :"+book);  
    }  
}  
public class BookDetails{  
    public static void main(String[] args) {  
        System.out.println("\nEnter the No. of Literature Books");  
        Scanner sc1 = new Scanner(System.in);  
        int num = sc1.nextInt();  
        Literature arr[]=new Literature[num];  
        System.out.println("\n Enter the Literature Book Details\n");  
        int x = 0,j=0;  
        Scanner sc =new Scanner(System.in);  
        for(int i =0;i<num;i++)  
        {  
            x = i +1;  
            System.out.println("\n"+x+").");  
            System.out.println("\n Book : ");
```

```
String boo =sc.next();

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

String pub =sc.next();


arr[i]=new Literature(boo,pub);
}

System.out.println("\nEnter the No. of Fiction Books");

int num1 = sc1.nextInt();

Fiction arr1[]=new Fiction[num1];

System.out.println("\n Enter the Fiction Book Details\n");

int x1 = 0,j1=0;

for(int i =0;i<num1;i++)

{

    x1 = i +1;

    System.out.println("\n"+x1+").");

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

    String boo =sc.next();

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

    String pub =sc.next();


    arr1[i]=new Fiction(boo,pub);

}

sc.close();

sc1.close();


System.out.println("\n*****Informations of all the Literature
Books*****");

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

    j=i+1;

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

```
        arr[i].display();

    }

    System.out.println("\n*****Informations of all the Fiction
Books*****");

    for(int i=0;i<num1;i++){

        j1=i+1;

        System.out.println("\n"+j1+");");

        arr1[i].display();

    }

    sc1.close();

}
```

Output

```
C:\Users\Student\Documents\java>javac BookDetails.java
C:\Users\Student\Documents\java>java BookDetails
Enter the No. of Literature Books
2
Enter the Literature Book Details
1).
Book :
romeo$juliet
Publisher:
william_shakespeare
2).
Book :
The_dairy_of_AnneFrank
Publisher:
AnneFrank
```

```
Enter the No. of Fiction Books
2

Enter the Fiction Book Details

1).

Book :
the_Alchemist

Publisher:
paulo_coelo

2).

Book :
dracula

Publisher:
bram_stoker

*****Informations of all the Literature Books*****

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Publisher :romeo$juliet
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