

OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 12

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{
    int pid;
    String pname;
    Publisher(int pid, String pname){
        this.pid = pid;
        this.pname = pname;
    }
}

class Book extends Publisher{
    int bid;
    String bname;
    Book(int pid, String pname, int bid, String bname){
        super(pid, pname);
        this.bid = bid;
        this.bname = bname;
    }
}

class Literature extends Book{
    int lid;
    String lname;
    Literature(int pid, String pname, int bid, String bname, int lid, String
lname){
        super(pid, pname, bid, bname);
        this.lid = lid;
        this.lname = lname;
    }
    void display(){
        System.out.println("Enter the Publisher ID : "+this.pid);
        System.out.println("Enter the Publisher NAME : "+this.pname);
        System.out.println("Enter the Book ID : "+this.bid);
        System.out.println("Enter the Book NAME : "+this.bname);
        System.out.println("Enter the Literature ID : "+this.lid);
        System.out.println("Enter the Literature NAME : "+this.lname);
    }
}
```

```

    }
}

class Fiction extends Book{
    int fid;
    String fname;
    Fiction(int pid, String pname, int bid, String bname, int fid, String
fname){
        super(pid, pname, bid, bname);
        this.fid = fid;
        this.fname = fname;
    }
    void display(){
        System.out.println("Publisher ID : "+this.pid);
        System.out.println("Publisher NAME : "+this.pname);
        System.out.println("Book ID : "+this.bid);
        System.out.println("Book NAME : "+this.bname);
        System.out.println("Fiction ID : "+this.fid);
        System.out.println("Fiction NAME : "+this.fname);
    }
}

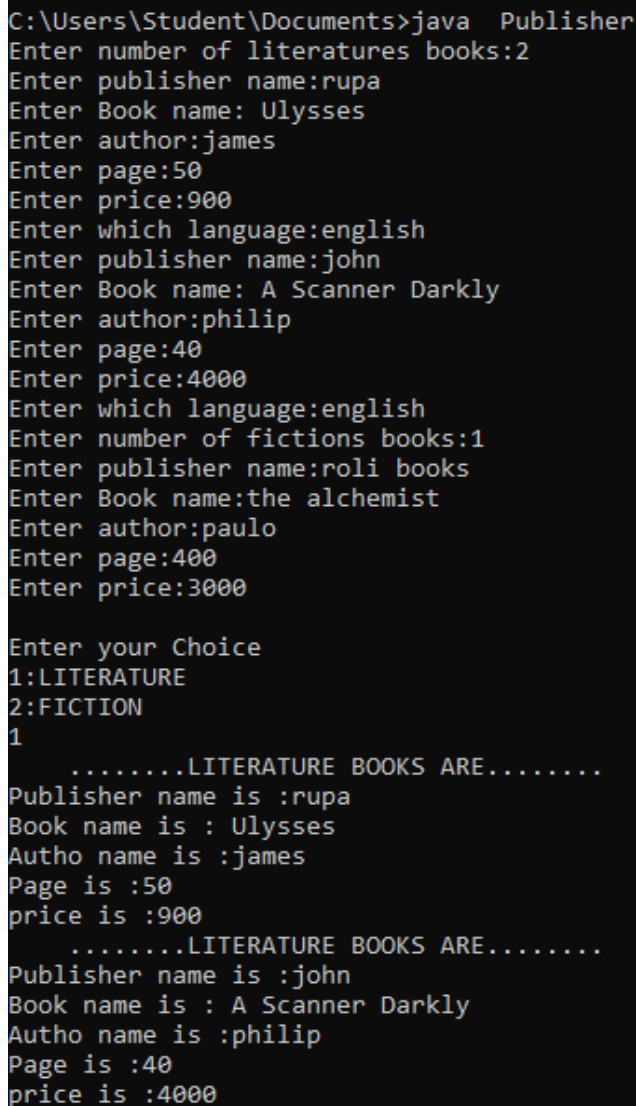
public class BookDetails{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        int n, i, type;
        int pid, bid, lid, fid;
        String pname, bname, lname, fname;
        System.out.println("Enter the limit : ");
        n = sc.nextInt();
        Literature[] lit = new Literature[n];
        Fiction[] fit = new Fiction[n];
        for(i=0; i<n; i++){
            System.out.println("Enter the Publisher ID : ");
            pid = sc.nextInt();
            System.out.println("Enter the Publisher Name : ");
            pname = sc.next();
            System.out.println("Enter the Book ID : ");
            bid = sc.nextInt();
            System.out.println("Enter the Book Name : ");
            bname = sc.next();
            System.out.println("BOOK TYPE? 1. Literature 2. Fiction : ");

            type = sc.nextInt();
            if(type == 1){
                System.out.println("Enter the Literature ID : ");
                lid = sc.nextInt();
                System.out.println("Enter the Literature Name : ");
                lname = sc.next();
                lit[i] = new Literature(pid, pname, bid, bname,
lid, lname);
            }
            else{
                System.out.println("Enter the Fiction ID : ");
                fid = sc.nextInt();
                System.out.println("Enter the Fiction Name : ");
                fname = sc.next();
                fit[i] = new Fiction(pid, pname, bid, bname, fid,
fname);
            }
        }
        if(lit.length > 0){

```

```
        for(i=0; i<lit.length; i++){
            lit[i].display();
        }
    }
    if(fit.length > 0){
        for(i=0; i<fit.length; i++){
            fit[i].display();
        }
    }
}
```

Output screenshot



```
C:\Users\Student\Documents>java Publisher
Enter number of literatures books:2
Enter publisher name:rupa
Enter Book name: Ulysses
Enter author:james
Enter page:50
Enter price:900
Enter which language:english
Enter publisher name:john
Enter Book name: A Scanner Darkly
Enter author:philip
Enter page:40
Enter price:4000
Enter which language:english
Enter number of fictions books:1
Enter publisher name:roli books
Enter Book name:the alchemist
Enter author:paulo
Enter page:400
Enter price:3000

Enter your Choice
1:LITERATURE
2:FICTION
1
.....LITERATURE BOOKS ARE.....
Publisher name is :rupa
Book name is : Ulysses
Autho name is :james
Page is :50
price is :900
.....LITERATURE BOOKS ARE.....
Publisher name is :john
Book name is : A Scanner Darkly
Autho name is :philip
Page is :40
price is :4000
```

