OBJECT ORIENTED PROGRAMING LAB

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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.

Source Code 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;
```

```java
    Literature(String pub, String boo){
super(pub, boo);
   }


    void display(){
        System.out.println("Book : "+publisher);

        System.out.println(" Publisher : "+book);

    }
}


class Fiction extends Book{
Fiction(String pub, String boo){
super(pub, boo);
   }


    void display(){
        System.out.println("Book : "+publisher);

        System.out.println(" Publisher : "+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("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.print(x+").");
            System.out.print("Book : ");
            String boo =sc.next();
            System.out.print("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("Enter the Fiction Book Details\n");
int x1 = 0,j1=0;        for(int i =0;i<num1;i++)
        {           x1
= i +1;
            System.out.print(x1+").");
            System.out.print("Book : ");
            String boo =sc.next();
            System.out.print("Publisher : ");
String pub =sc.next();
arr1[i]=new Fiction(boo,pub);
        }
sc.close();
sc1.close();

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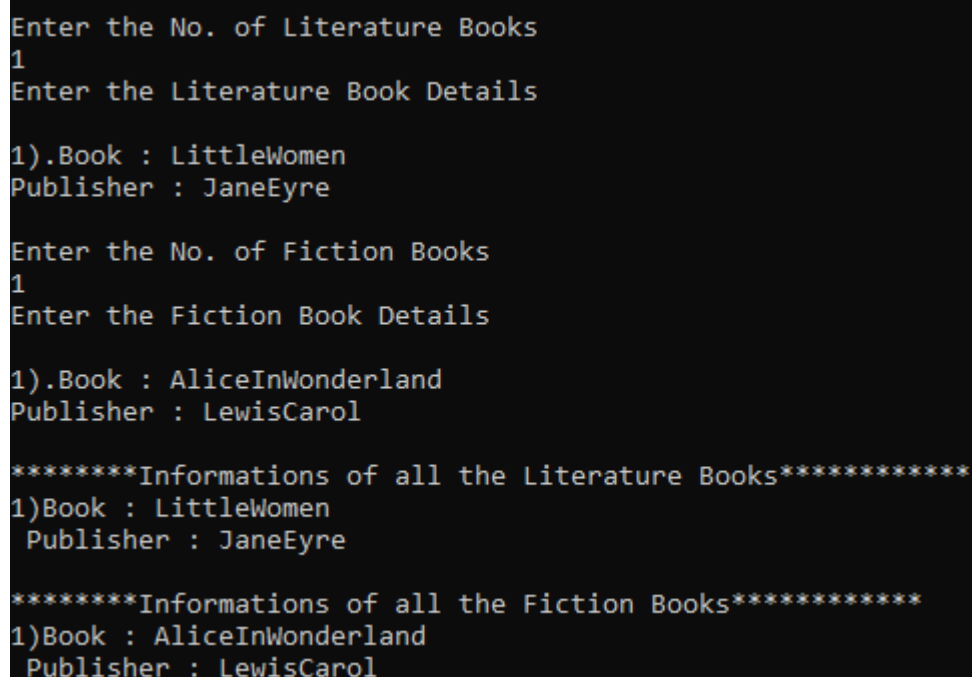
Books************");

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

j=i+1;

     System.out.print(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.print(j1+")");

arr1[i].display();

   }

sc1.close();

  }

  }

Output Screenshot

```
Enter the No. of Literature Books
1
Enter the Literature Book Details

1).Book : LittleWomen
Publisher : JaneEyre

Enter the No. of Fiction Books
1
Enter the Fiction Book Details

1).Book : AliceInWonderland
Publisher : LewisCarol

********Informations of all the Literature Books*************
1)Book : LittleWomen
 Publisher : JaneEyre

********Informations of all the Fiction Books*************
1)Book : AliceInWonderland
 Publisher : LewisCarol
```