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**OBJECT ORIENTED PROGRAMING 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.

**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;

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**

