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**Batch:S2 RMCA-B**

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**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.

**Procedure**

import java.util.Scanner;

class Publisher{

int pub\_id;

String pub\_name;

Publisher(int pub\_id,String pub\_name)

{

this.pub\_id=pub\_id;

this.pub\_name=pub\_name;

}

}

class Book extends Publisher{

int bk\_id;

String bk\_name;

Book(int pub\_id,String pub\_name,int bk\_id,String bk\_name)

{

super(pub\_id,pub\_name);

this.bk\_id=bk\_id;

this.bk\_name=bk\_name;

}

}

class Literature extends Book{

String cat;

Literature(int pub\_id,String pub\_name,int bk\_id,String bk\_name)

{

super(pub\_id,pub\_name,bk\_id,bk\_name);

this.cat="Literature";

}

void display()

{

System.out.println("Publisher id"+this.pub\_id);

System.out.println("Publisher name"+this.pub\_name);

System.out.println("Book id:"+this.bk\_id);

System.out.println("Book name:"+this.bk\_name);

System.out.println("Category:"+this.cat);

}

}

class Fiction extends Book{

String cat;

Fiction(int pub\_id,String pub\_name,int bk\_id,String bk\_name)

{

super(pub\_id,pub\_name,bk\_id,bk\_name);

this.cat="Fiction";

}

void display()

{

System.out.println("Publisher id: "+this.pub\_id);

System.out.println("Publisher name: "+this.pub\_name);

System.out.println("Book id: "+this.bk\_id);

System.out.println("Book name: "+this.bk\_name);

System.out.println("Category: "+this.cat);

}

}

public class CO34{

public static void main(String args[])

{

int pub\_id,bk\_id;

String pub\_name,bk\_name;

Scanner sc=new Scanner(System.in);

System.out.println("Enter publisher id:");

pub\_id=sc.nextInt();

System.out.println("Enter publisher name:");

pub\_name=sc.next();

System.out.println("Enter book id:");

bk\_id=sc.nextInt();

System.out.println("Enter book name");

bk\_name=sc.next();

Literature lit=new Literature(pub\_id,pub\_name,bk\_id,bk\_name);

Fiction fc=new Fiction(pub\_id,pub\_name,bk\_id,bk\_name);

lit.display();

fc.display();

}

}

**Output Screenshot**

