**Name: JOEL JOHN JOSEPH**

**Roll No:08**

**Batch:S2 MCA**

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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 13**

**Aim**

Write a program has 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 p\_id;

String p\_name;

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

{

this.p\_id=p\_id;

this.p\_name=p\_name;

}

}

class Book extends Publisher

{

int b\_id;

String b\_name;

Book(int p\_id, String p\_name, int b\_id, String b\_name)

{

super(p\_id, p\_name);

this.b\_id=b\_id;

this.b\_name=b\_name;

}

}

class Literature extends Book

{

String cat;

Literature(int p\_id, String p\_name, int b\_id, String b\_name)

{

super(p\_id, p\_name, b\_id, b\_name);

this.cat="Literature";

}

void Display4()

{

System.out.println("\n\n.............Literature book details...........");

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

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

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

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

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

}

}

class Fiction extends Book

{

String cat;

Fiction(int p\_id, String p\_name, int b\_id, String b\_name)

{

super(p\_id, p\_name, b\_id, b\_name);

this.cat="Fiction";

}

void Display4()

{

System.out.println("\n\n.............Fiction book details...........");

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

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

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

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

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

}

}

public class PublisherBooks

{

public static void main(String[] args)

{

int p\_id, b\_id;

String p\_name, b\_name,t;

Scanner s=new Scanner(System.in);

System.out.print("\nEnter the type of book(Type 'l/L' for Literature/'f/F' for Fiction)? ");

t=s.next();

if(t.equals("l")||t.equals("L"))

{

System.out.print("\nEnter the Publisher ID :");

p\_id=s.nextInt();

System.out.print("Enter the Publisher Name :");

p\_name=s.next();

System.out.print("Enter the Book ID :");

b\_id=s.nextInt();

System.out.print("Enter the Book Name :");

b\_name=s.next();

Literature lit=new Literature(p\_id, p\_name, b\_id, b\_name);

lit.Display4();

}

else if(t.equals("f")||t.equals("F"))

{

System.out.print("\nEnter the Publisher ID :");

p\_id=s.nextInt();

System.out.print("Enter the Publisher Name :");

p\_name=s.next();

System.out.print("Enter the Book ID :");

b\_id=s.nextInt();

System.out.print("Enter the Book Name :");

b\_name=s.next();

Fiction fic=new Fiction(p\_id, p\_name, b\_id, b\_name);

fic.Display4();

}

else

{

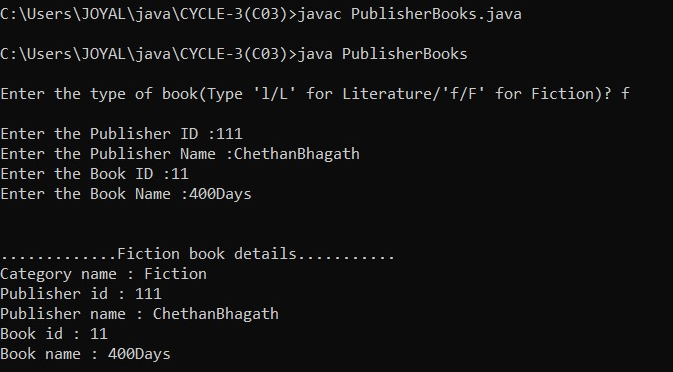
System.out.println("\n\n!!!!!!!!!!!!!!!Entry for type of book is not valid!!!!!!!!!!!!!! ");

}

}

}

**Output Screenshot**

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