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**Batch:Mca-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.

**Program:**

import java.io.\*;

class Publisher

{

int pid;

String pname;

Publisher(int pid,String pname)

{

this.pid=pid;

this.pname=pname;

}

}

class Book extends Publisher

{

int bid;

String title;

String author;

int price;

int nop;

Book(int pid,String pname,int bid,String title,int price,int nop,String author)

{

super(pid,pname);

this.bid=bid;

this.title=title;

this.price=price;

this.nop=nop;

this.author=author;

}

}

class Literature extends Book

{

String language;

int rating;

int year;

Literature(int pid,String pname,int bid,String title,int price,int nop,String author,String language,int rating,int year)

{

super(pid,pname,bid,title,price,nop,author);

this.language=language;

this.rating=rating;

this.year=year;

}

void display()

{

System.out.println("\n PUBLISHER ID : "+pid);

System.out.println("\n PUBLISHER : "+pname);

System.out.println("\n BOOK ID : "+bid);

System.out.println("\n TITLE : "+title);

System.out.println("\n PRICE : "+price);

System.out.println("\n NO. OF PAGES : "+nop);

System.out.println("\n LANGUAGE : "+language);

System.out.println("\n AUTHOR : "+author);

System.out.println("\n RATING : "+rating);

System.out.println("\n YEAR OF PUBLISHING : "+year);

}

}

class Fiction extends Book

{

String category;

String type;

int year;

Fiction(int pid,String pname,int bid,String title,int price,int nop,String author,String category,String type,int year)

{

super(pid,pname,bid,title,price,nop,author);

this.category=category;

this.type=type;

this.year=year;

}

void display()

{

System.out.println("\n PUBLISHER ID : "+pid);

System.out.println("\n PUBLISHER : "+pname);

System.out.println("\n BOOK ID : "+bid);

System.out.println("\n TITLE : "+title);

System.out.println("\n PRICE : "+price);

System.out.println("\n NO. OF PAGES : "+nop);

System.out.println("\n AUTHOR : "+author);

System.out.println("\n CATEGORY : "+category);

System.out.println("\n TYPE / THEME : "+type);

System.out.println("\n YEAR OF PUBLISHING :"+year);

}

}

public class Books

{

public static void main(String[] args)

{

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

int opt;

int pid=0,price=0,bid=0,nop=0,year=0,rating=0;

String pname="",title="",category="",type="",language="",author="";

try

{

do

{

System.out.println("\n SELECT AN OPTION\n");

System.out.println("\n 1. I WANT TO ENTER A RECORD OF A LITERATURE\n");

System.out.println("\n 2. I WANT TO ENTER A RECORD OF A FICTION\n");

System.out.println("\n 3. I WANT TO EXIT\n");

opt=Integer.parseInt(br.readLine());

if(opt==1 || opt==2)

{

System.out.println("\n Please fill the following \n");

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

pid=Integer.parseInt(br.readLine());

System.out.println("\n Enter the publisher's name:\n");

pname=br.readLine();

System.out.println("\n Enter the ID of the book : \n");

bid=Integer.parseInt(br.readLine());

System.out.println("\n Enter the title of the book : \n");

title=br.readLine();

System.out.println("\n Enter the price \n");

price=Integer.parseInt(br.readLine());

System.out.println("\n How many pages are of this book ? \n");

nop=Integer.parseInt(br.readLine());

System.out.println("\n Enter the name of author: \n");

author=br.readLine();

}

switch(opt)

{

case 1: System.out.println("\n Enter the language of the book \n");

language=br.readLine();

System.out.println("\n Enter a rating \n");

rating=Integer.parseInt(br.readLine());

System.out.println("\n Enter year of publishing: \n");

year=Integer.parseInt(br.readLine());

break;

case 2: System.out.println("\n Enter the category of the book ? \n");

category=br.readLine();

System.out.println("\n Enter the theme of the content \n");

type=br.readLine();

System.out.println("\n Enter year of publishing: \n");

year=Integer.parseInt(br.readLine());

break;

case 3: System.exit(0);

default: System.out.println("\n Invalid Option\n");

}

if(opt==1)

{

Literature ob1=new Literature(pid,pname,bid,title,price,nop,author,language,rating,year);

ob1.display();

}

else

{

Fiction ob2=new Fiction(pid,pname,bid,title,price,nop,author,category,type,year);

ob2.display();

}

}

while(opt!=3);

}

catch(Exception e)

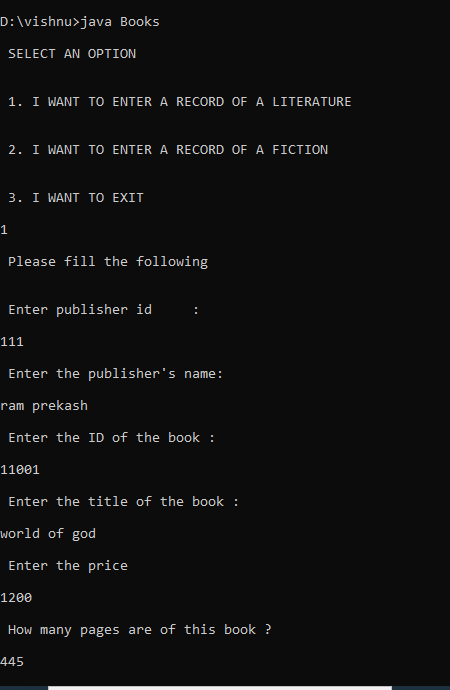
{

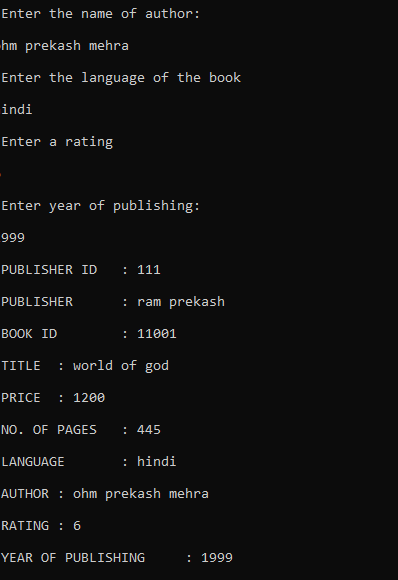
}

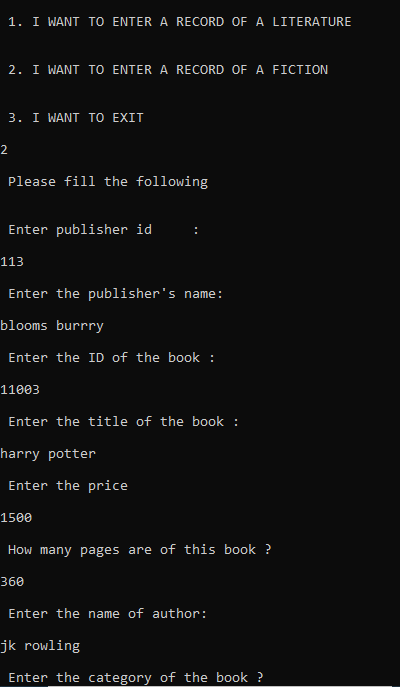
}

}

**OUTPUT:**

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