OBJECT ORIENTED PROGRAMMING LAB

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Roll No: 10

Batch: MCA

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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:

```java
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;
    }
}
```

```java
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);
```

```java
        System.out.println("Book name : "+ this.b_name);
    }
}
public class CO34
{   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 :");
```
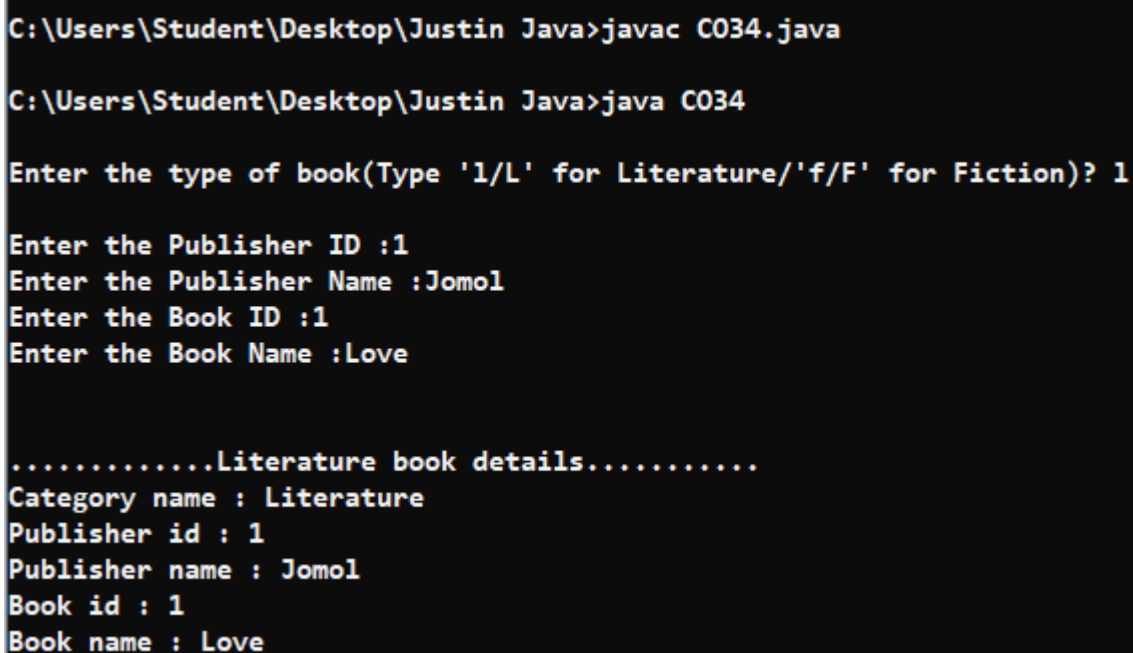
```
        p_name=s.next();

        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:

```
C:\Users\Student\Desktop\Justin Java>javac C034.java

C:\Users\Student\Desktop\Justin Java>java C034

Enter the type of book(Type 'l/L' for Literature/'f/F' for Fiction)? l

Enter the Publisher ID :1
Enter the Publisher Name :Jomol
Enter the Book ID :1
Enter the Book Name :Love


.............Literature book details...........
Category name : Literature
Publisher id : 1
Publisher name : Jomol
Book id : 1
Book name : Love
```