

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 13****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 17-05-22****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

```
D:\Javalab>java BookDetails

Enter the No. of Literature Books
2
Enter the Literature Book Details

1).Book : LittleWomen
Publisher : LouisaMayAlcott
2).Book : CharlotteBronte
Publisher : JaneEyre

Enter the No. of Fiction Books
2
Enter the Fiction Book Details

1).Book : AliceInWonderland
Publisher : LewisCarroll
2).Book : Dracula
Publisher : BramStoker

*****Informations of all the Literature Books*****
1)Book : LittleWomen
  Publisher : LouisaMayAlcott
2)Book : CharlotteBronte
  Publisher : JaneEyre

*****Informations of all the Fiction Books*****
1)Book : AliceInWonderland
  Publisher : LewisCarroll
2)Book : Dracula
  Publisher : BramStoker
```