

**Name - Yash Lakhtariya**

**Enrollment number - 21162101012**

**Branch - CBA , Batch - 31**

**OOP Exercise - Inheritance 2**

**Problem** : Create a class named 'Member' having the following members:

Data members :

1 - Name

2 - Age

3 - Phone number

4 - Address

5 - Salary

It also has a method named 'printSalary' which prints the salary of the members. Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.

**Code** :

```
// YSL - Yash S Lakhtariya
```

```
class Member
```

```
{
```

```
    String name;
```

```
    int age;
```

```
    long contact;
```

```
    String address;
```

```
    double salary;
```

```
    public void printSalary()
```

```
    {
```

```
        System.out.println("\n\tSalary Assigned : " + this.salary + " USD");
```

```
    }
```

```
}
```

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```
class Employee extends Member
{
    String spcl;
    public void empl()
    {
        System.out.println("\nEmployee Details : ");
        System.out.println("\n\tName : " + this.name);
        System.out.println("\n\tAge : " + this.age);
        System.out.println("\n\tContact : " + this.contact);
        System.out.println("\n\tAddress : " + this.address);
        System.out.println("\n\tSpecialization : " + this.spcl);
    }
}

class Manager extends Member
{
    String department;
    public void mngr()
    {
        System.out.println("\nManager Details : ");
        System.out.println("\n\tName : " + this.name);
        System.out.println("\n\tAge : " + this.age);
        System.out.println("\n\tContact : " + this.contact);
        System.out.println("\n\tAddress : " + this.address);
        System.out.println("\n\tDepartment : " + this.department);
    }
}

public class YSL_ex_inhrt2
{
}
```

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```
public static void main(String[] args)
{

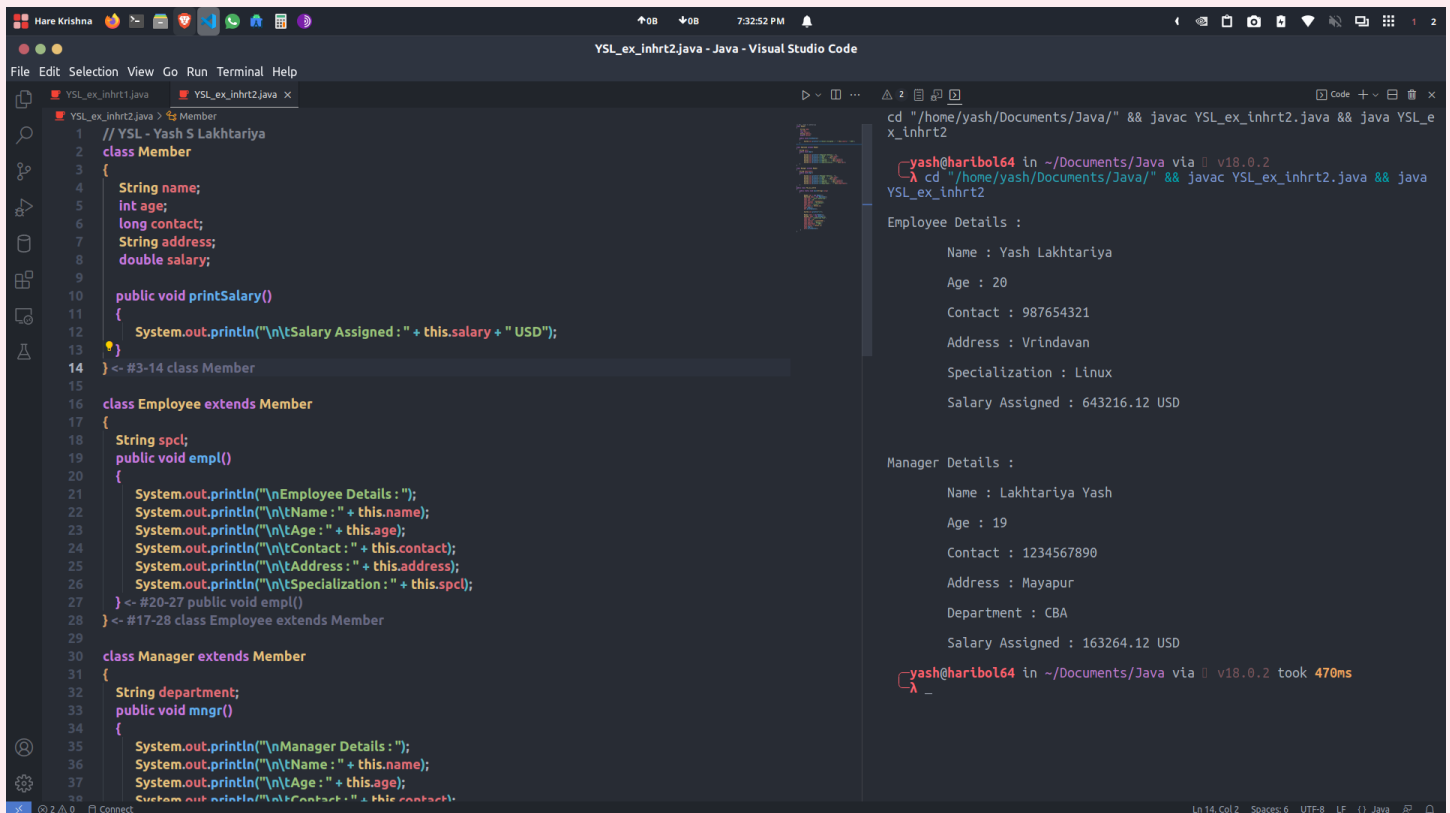
    Member mbr = new Member();
    Employee emp1 = new Employee();
    emp1.name = "Yash Lakhtariya";
    emp1.age = 20;
    emp1.contact = 987654321l;
    emp1.address = "Vrindavan";
    emp1.spcl = "Linux";
    mbr.salary = 643216.12;
    emp1.empl();
    mbr.printSalary();

    System.out.println("\n");

    Member mbr2 = new Member();
    Manager emp2 = new Manager();
    emp2.name = "Lakhtariya Yash";
    emp2.age = 19;
    emp2.contact = 1234567890l;
    emp2.address = "Mayapur";
    emp2.department = "CBA";
    mbr2.salary = 163264.12;
    emp2.mngr();
    mbr2.printSalary();
}
```

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## Output :



```
YSL_ex_inhrt2.java - Java - Visual Studio Code
File Edit Selection View Go Run Terminal Help
YSL_ex_inhrt2.java X
1 // YSL - Yash S Lakhtariya
2 class Member
3 {
4     String name;
5     int age;
6     long contact;
7     String address;
8     double salary;
9
10    public void printSalary()
11    {
12        System.out.println("\n\tSalary Assigned : " + this.salary + " USD");
13    }
14 } <- #3-14 class Member
15
16 class Employee extends Member
17 {
18     String spcl;
19     public void empl()
20     {
21         System.out.println("\nEmployee Details :");
22         System.out.println("\n\tName : " + this.name);
23         System.out.println("\n\tAge : " + this.age);
24         System.out.println("\n\tContact : " + this.contact);
25         System.out.println("\n\tAddress : " + this.address);
26         System.out.println("\n\tSpecialization : " + this.spcl);
27     } <- #20-27 public void empl()
28 } <- #17-28 class Employee extends Member
29
30 class Manager extends Member
31 {
32     String department;
33     public void mngr()
34     {
35         System.out.println("\nManager Details :");
36         System.out.println("\n\tName : " + this.name);
37         System.out.println("\n\tAge : " + this.age);
38         System.out.println("\n\tContact : " + this.contact);
39         System.out.println("\n\tAddress : " + this.address);
40         System.out.println("\n\tDepartment : " + this.department);
41         System.out.println("\n\tSalary Assigned : " + this.salary + " USD");
42     } <- #35-42 public void mngr()
43 } <- #30-43 class Manager extends Member
44
45 public class YSL_ex_inhrt2 {
46     public static void main(String[] args) {
47         Employee emp = new Employee("Yash Lakhtariya", 20, 987654321, "Vrindavan", "Linux");
48         emp.empl();
49
50         Manager mgr = new Manager("Yash Lakhtariya", 19, 1234567890, "Mayapur", "CBA");
51         mgr.mngr();
52     }
53 }
```

cd "/home/yash/Documents/Java/" && javac YSL\_ex\_inhrt2.java && java YSL\_ex\_inhrt2

yash@haribol64 in ~/Documents/Java via v18.0.2  
λ cd "/home/yash/Documents/Java/" && javac YSL\_ex\_inhrt2.java && java YSL\_ex\_inhrt2

Employee Details :

Name : Yash Lakhtariya  
Age : 20  
Contact : 987654321  
Address : Vrindavan  
Specialization : Linux  
Salary Assigned : 643216.12 USD

Manager Details :

Name : Lakhtariya Yash  
Age : 19  
Contact : 1234567890  
Address : Mayapur  
Department : CBA  
Salary Assigned : 163264.12 USD

yash@haribol64 in ~/Documents/Java via v18.0.2 took 470ms  
λ \_