Name: Badal Wanjari

Branch: Computer Technology

Section: B

Roll No. 140

Registration No. 20011045

Subject: Object Oriented Programming Lab

Practical-4

• Problem Definition:

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 print in which prints the salary of members.

Two classes 'Employee' and 'Manager' inherit the member class the 'Employee' and 'Manager' classes having data members 'specialization' and 'department' respectively. Now design name, age, phone number, address and salary to an employee and a manager by making an object of both these classes and print the same using the override method 'printInfo'.

Program:

```
class Member{
   String Name;
   int Age;
   String PhoneNo;
   String Address;
   Double Salary;

   //overriden method
   void printInfo() {
   }
}

class Employees extends Member {
```

```
String Specialization;
   public Employees(String name, int age, String address, String PhoneNum, double sal, String
specilizedIn) {
       this.Name = name;
        this.Age = age;
        this.Address = address;
        this.PhoneNo = PhoneNum;
       this.Salary = sal;
       this.Specialization = specilizedIn;
   }
   @Override
   void printInfo() {
       System.out.println("Name : " + this.Name);
       System.out.println("Age : " + this.Age);
       System.out.println("Address : " + this.Address);
        System.out.println("Phone No. : " + this.PhoneNo);
       System.out.println("Post : Employee");
       System.out.println("Specialization : " + this.Specialization);
       System.out.println("Salary : " + "Rs. " + this.Salary + "\n");
    }
class Manager extends Member {
   String Department;
   //constructor
   public Manager(String name, int age, String address, String PhoneNum, double sal, String
department) {
        this.Name = name;
        this.Age = age;
        this.Address = address;
        this.PhoneNo = PhoneNum;
       this.Salary = sal;
       this.Department = department;
    }
    @Override
    void printInfo() {
        System.out.println("Name : " + this.Name);
       System.out.println("Age : " + this.Age);
       System.out.println("Address : " + this.Address);
       System.out.println("Phone No. : " + this.PhoneNo);
       System.out.println("Post : Manager");
        System.out.println("Department : " + this.Department);
       System.out.println("Salary : " + "Rs. " + this.Salary + "\n");
```

```
}

public class Practical4 {
    public static void main(String[] args) {
        Employees employee1 = new Employees("Dhiraj Deshmukh", 23, "Sakkardhara, Nagpur -
441100", "+919848684682", 30000, "Accounts");
        Manager manager1 = new Manager("Rajkumar Singh", 26, "Hingna, Nagpur - 441104",
"+917856846820", 60000, "Sales");
        manager1.printInfo();
        employee1.printInfo();
}
```

Output:

Name: Rajkumar Singh

Age: 26

Address: Hingna, Nagpur - 441104

Phone No.: +917856846820

Post: Manager Department: Sales Salary: Rs. 60000.0

Name: Dhiraj Deshmukh

Age: 23

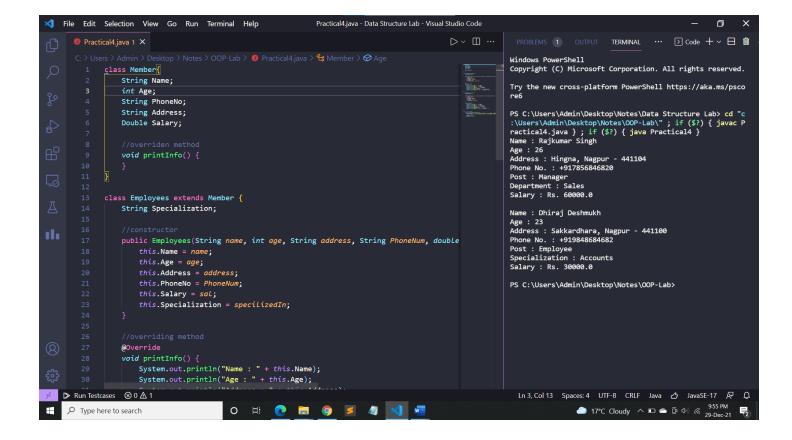
Address: Sakkardhara, Nagpur - 441100

Phone No.: +919848684682

Post: Employee

Specialization : Accounts Salary : Rs. 30000.0

• Screenshot:



• Result:

By studying implementation of concept of run time polymorphism in Java., I have successfully completed Practical-4.