

Name:-Tanzeem Hundekari

Roll No:-2401067

### **1)Employee.java**

```
package pkgOrgStructure;
```

```
public class Employee {
```

```
    private int empld;
```

```
    private String empNm;
```

```
    private int empAge;
```

```
    private String empPanCrd;
```

```
    private String empAadharCrd;
```

```
    private String empDept;
```

```
    private double empSal;
```

```
    private String empContactNbr;
```

```
    private int empExp;
```

```
    public Employee(int empld, String empNm, int empAge,  
String empPanCrd, String empAadharCrd, String empDept,  
double empSal, String empContactNbr, int empExp) {
```

```
        setEmpld(empld);
```

```
        setEmpNm(empNm);
```

```
        setEmpAge(empAge);
```

```
        setEmpPanCrd(empPanCrd);
```

```
    setEmpAadharCrd(empAadharCrd);  
    setEmpDept(empDept);  
    setEmpSal(empSal);  
    setEmpContactNbr(empContactNbr);  
    setEmpExp(empExp);  
}
```

```
public int getEmpId() { return empId; }
```

```
public void setEmpId(int empId) { this.empId = empId; }
```

```
public String getEmpNm() { return empNm; }
```

```
public void setEmpNm(String empNm) { this.empNm =  
empNm; }
```

```
public int getEmpAge() { return empAge; }
```

```
public void setEmpAge(int empAge) { this.empAge =  
empAge; }
```

```
public String getEmpPanCrd() { return empPanCrd; }
```

```
public void setEmpPanCrd(String empPanCrd) {  
this.empPanCrd = empPanCrd; }
```

```
public String getEmpAadharCrd() { return empAadharCrd; }
```

```
public void setEmpAadharCrd(String empAadharCrd) {  
this.empAadharCrd = empAadharCrd; }
```

```
public String getEmpDept() { return empDept; }
```

```
public void setEmpDept(String empDept) { this.empDept =  
empDept; }
```

```
public double getEmpSal() { return empSal; }
```

```
public void setEmpSal(double empSal) { this.empSal =  
empSal; }
```

```
public String getEmpContactNbr() { return empContactNbr;  
}
```

```
public void setEmpContactNbr(String empContactNbr) {  
this.empContactNbr = empContactNbr; }
```

```
public int getEmpExp() { return empExp; }
```

```
public void setEmpExp(int empExp) { this.empExp =  
empExp; }
```

```
public void details() {
```

```
    System.out.println("Employee ID: " + empId + ", Name: "  
+ empNm + ", Age: " + empAge + ", Department: " + empDept  
+ ", Salary: " + empSal);
```

```
}
```

```
public void computeSalary() {
```

```
    // Default method to be overridden in subclasses
```

```
}
```

```
}
```

## 2)Manager.java

```
package pkgOrgStructure;
```

```
public class Manager extends Employee {
```

```
    private int noOfTeams;
```

```
    private int noOfReportees;
```

```
    public Manager(int empId, String empNm, int empAge,  
String empPanCrd, String empAadharCrd, String empDept,  
double empSal, String empContactNbr, int empExp, int  
noOfTeams, int noOfReportees) {
```

```
        super(empId, empNm, empAge, empPanCrd,  
empAadharCrd, empDept, empSal, empContactNbr, empExp);
```

```
        this.noOfTeams = noOfTeams;
```

```
        this.noOfReportees=noOfReportees;
```

```
        System.out.println("This is Manager class  
Constructor!");
```

```
    }
```

```
    //getters for noofteams
```

```

    public int getNoOfTeams() {return noOfTeams;}

    //setters for noofteams

    public void setNoOfTeams(int noOfTeams)
    {this.noOfTeams=noOfTeams;}


    //getters for noofreportees

    public int getNoOfReportees() {return noOfReportees;}

    //setters for noofreportees

    public void setNoOfReportees(int noOfReportees)
    {this.noOfReportees=noOfReportees;}


    public void computeSalary() {
        setEmpSal(getEmpSal()*8);
    }

    public void details() {
        super.details();

        System.out.println("No of
Teams:"+noOfTeams+",No of Reportees:"+noOfReportees);
    }
}

```

### 3)Developer.java

```

package pkgOrgStructure;

```

```
public class Developer extends Employee {  
    private String nameOfTheTeam;  
    private String nameOfManager;  
    private String technologies;  
  
    public Developer(int empId, String empNm, int empAge,  
String empPanCrd, String empAadharCrd, String empDept,  
double empSal, String empContactNbr, int empExp, String  
nameOfTheTeam, String nameOfManager, String  
technologies) {  
        super(empId, empNm, empAge, empPanCrd,  
empAadharCrd, empDept, empSal, empContactNbr, empExp);  
        this.nameOfTheTeam = nameOfTheTeam;  
        this.nameOfManager = nameOfManager;  
        this.technologies = technologies;  
        System.out.println("This is Developer class  
Constructor!");  
    }  
  
    //getters for nameofteam  
    public String getNameOfTheTeam() {return  
nameOfTheTeam;}  
  
    //setters for nameofteam
```

```
public void setNameOfTheTeam(String nameOfTheTeam)
{this.nameOfTheTeam=nameOfTheTeam;}
```

```
//getters for nameofmanager
```

```
public String getNameOfManager() {return
nameOfManager;}
```

```
//setters for nameofmanager
```

```
public void setNameOfManager(String nameOfManager)
{this.nameOfManager=nameOfManager;}
```

```
//getters for technologies
```

```
public String getTechnologies() {return technologies;}
```

```
//setters for technologies
```

```
public void setTechnologies(String technologies)
{this.technologies=technologies;}
```

```
public void computeSalary() {
    setEmpSal(getEmpSal() * 6);
}
```

```
public void details() {
```

```

        super.details();

        System.out.println("Team: " + nameOfTheTeam + ",
Manager: " + nameOfManager + ", Technologies: " +
technologies);
    }
}

```

#### 4)Tester.java

```

package pkgOrgStructure;

public class Tester extends Employee {
    private String nameOfTeam;
    private String nameOfManager;
    private String testingType;

    public Tester(int empId, String empNm, int empAge,
String empPanCrd,String empAadharCrd, String empDept,
double empSal,String empContactNbr, int empExp, String
nameOfTeam, String nameOfManager, String testingType) {
        super(empId, empNm, empAge, empPanCrd,
empAadharCrd, empDept, empSal, empContactNbr, empExp);
        this.nameOfTeam=nameOfTeam;
        this.nameOfManager=nameOfManager;
        this.testingType=testingType;

        System.out.println("This is Tester class
constructor!");
    }
}

```



```

public void computeSalary() {
    setEmpSal(getEmpSal() * 5);
}

public void details() {
    super.details();

    System.out.println("Team: " + nameOfTeam + ",
Manager: " + nameOfManager + ", Testing Type: " +
testingType);
}
}

```

## 5)EmployeeDemo.java

```

package pkgOrgStructure;

public class EmployeeDemo {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        Manager manager = new Manager(101, "Alice", 40,
"PAN101", "AAD101", "HR", 5000, "1234567890", 15, 3, 10);

        Developer developer = new Developer(102, "Bob", 30,
"PAN102", "AAD102", "IT", 4000, "0987654321", 8, "Dev
Team A", "Alice", "Java, Python");

        Tester tester = new Tester(103, "Charlie", 28, "PAN103",
"AAD103", "IT", 3500, "1122334455", 6, "QA Team", "Alice",
"Automation");
    }
}

```

```
manager.computeSalary();  
developer.computeSalary();  
tester.computeSalary();  
  
System.out.println("Manager Details:");  
manager.details();  
  
System.out.println("\nDeveloper Details:");  
developer.details();  
  
System.out.println("\nTester Details:");  
tester.details();  
  
}  
  
}
```

## Output Screens:-

<terminated> EmployeeDemo [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (01-Apr-2025, 7:34:54 pm – 7:34:57 pm elapsed: 0:00:03.153) [pid: 16880]

```
|This is Manager class Constructor!  
This is Developer class Constructor!  
This is Tester class constructor!  
Manager Details:  
Employee ID: 101, Name: Alice, Age: 40, Department: HR, Salary: 40000.0  
No of Teams:3,No of Reportees:10  
  
Developer Details:  
Employee ID: 102, Name: Bob, Age: 30, Department: IT, Salary: 24000.0  
Team: Dev Team A, Manager: Alice, Technologies: Java, Python  
  
Tester Details:  
Employee ID: 103, Name: Charlie, Age: 28, Department: IT, Salary: 17500.0  
Team: QA Team, Manager: Alice, Testing Type: Automation
```

