Assignment – 2

1. **Write a java program to perform these operations:**
2. **Employee salary can be access by the same employee member.**
3. **Employee name can be access by anyone.**
4. **Employee ID can be access by another group in same company.**

import company.Employee;

public class EmployeeApp {

    public static void main(String[] args) {

        Employee emp = new Employee("Alice Smith", 2002, 85000.0);

        System.out.println("Employee Name: " + emp.name + "Salary: $" + emp.showSalary()); // ✅ Public - Accessible

    }

}

Source Code (EmployeeApp.java)



package company;

import java.util.Random;

public class Employee {

    public String name; // Public: Accessible by anyone

    protected int empId; // Protected: Accessible by the company or subclasses

    private double salary; // Private: Only accessible by the same Employee object

    public Employee(String name, int empId, double salary) {

        this.name = name;

        this.empId = (empId <= 0) ? new Random().nextInt(1000) : empId;

        this.salary = salary;

    }

    // Method to allow to access the salary

    double getSalary() {

        return salary;

    }

}

Source Code (Employee.java)



package company.group;

import company.Employee;

public class FinanceGroup extends Employee { // Inherit from Employee

    public FinanceGroup(String name, int employeeID, double salary) {

        super(name, employeeID, salary);

    }

    public void showDetails() {

        System.out.println("Employee Name: " + name); // ✅ Public - Accessible

        System.out.println("Employee ID: " + employeeID); // ✅ Protected - Accessible due to inheritance

    }

    public static void main(String[] args) {

        FinanceGroup deptEmp = new FinanceGroup("Anit Halder", 1001, 750000.0);

        deptEmp.showDetails();

        // System.out.println("Salary: " + deptEmp.salary); // ❌ Error - Private member

    }

}

Source Code (FinanceGroup.java)



user@AnitDesktop MINGW64 /g/My Works/B.Tech-IT/OOPs/java\_ass (main)

$ javac -d . \*.java

user@AnitDesktop MINGW64 /g/My Works/B.Tech-IT/OOPs/java\_ass (main)

$ javac EmployeeApp.java

user@AnitDesktop MINGW64 /g/My Works/B.Tech-IT/OOPs/java\_ass (main)

$ java EmployeeApp

Employee Name: Alice Smith ,Salary: $85000.0

user@AnitDesktop MINGW64 /g/My Works/B.Tech-IT/OOPs/java\_ass (main)

$ javac FiananceGroup.java

user@AnitDesktop MINGW64 /g/My Works/B.Tech-IT/OOPs/java\_ass (main)

$ java FiananceGroup

Employee Name: Anit Halder

Employee ID: 1001

Output