

## Assignment – 2

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



### Source Code (EmployeeApp.java)

```
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 (Employee.java)

```
package company;

import java.util.Random;

public class Employee {
    public String name; // Public: Accessible by anyone
    protected int empld; // Protected: Accessible by the company or subclasses
    private double salary; // Private: Only accessible by the same Employee object

    public Employee(String name, int empld, double salary) {
        this.name = name;
        this.empld = (empld <= 0) ? new Random().nextInt(1000) : empld;
        this.salary = salary;
    }

    // Method to allow to access the salary
    double getSalary() {
        return salary;
    }
}
```



### Source Code (FinanceGroup.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
    }
}
```

### Output

```
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
```