

Lab 2 Example : Employee Class

A class called **Employee**, which models an employee with an ID, name and salary, is designed as follows. The method **raiseSalary (percent)** increases the salary by the given percentage. Develop the **Employee** class and suitable main method for demonstration.

```
package Emp;

class Employee
{
    // class member variable
    private int Empno;
    private String Empname;
    private int salary;

    // setter method to set data values
    public void setdata(int Empno,String Empname,int salary)
    {
        this.Empno=Empno;
        this.Empname=Empname;
        this.salary=salary;
    }
    // getter method to print or return
    public void getdata()
    {
        System.out.println("~~~~~");
        System.out.println("Employee's Report");
        System.out.println("~~~~~");
        System.out.println("Empno    : "+Empno);
        System.out.println("Empname : "+Empname);
        System.out.println("Salary   : "+salary);
        System.out.println("~~~~~");
    }
    // method for raising salary of employee
    public void raiseSalary(double percent) {
        if (percent > 0) {
            double raiseAmount = salary * (percent / 100);
            salary += raiseAmount;
            System.out.println(Empname + "'s salary raised by " + percent + "% . New salary details is");
        } else {
            System.out.println("Invalid percentage. Salary remains unchanged.");
        }
    }

    // method to print a string when the object is printed in the main using toString() method
    public String toString()
    {
        return Empno+" "+Empname+" "+salary;
    }
}
```

```

}
// Main class.
public class Getter_Setter
{
    // main method
    public static void main(String argsv[])
    {
        // Creating an object of the Employee class
        final Employee e = new Employee();

        // the employee details are getting set using the setter method.
        e.setdata(101,"Ram Kumar",34000);

        // Displaying the details of the employee details using the getter method before salary hike
        e.getdata();

        // Displaying the details of the employee details using the getter method after 10 % salary hike
        e.raiseSalary(5);

        // Displaying after raising salary using toString()

        System.out.println(e);
    }
}

```

o/p

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### **Employee's Report**

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Empno : 101

Empname : Ram Kumar

Salary : 34000

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**Ram Kumar's salary raised by 5.0%. New salary details is  
101 Ram Kumar 35700**

## **Lab 2 Exercise : Student Class**

**A class called Student with data members Rollno, Sname , Mark1, Mark2, Mark3, Mark4, Mark5 & Mark6, Total, Result. The method calculate() is defined to calculate total and result and getdata() is defined to print the following details of Student Report using the main class called MarkReport**

**When the object s is created and set as s.setdata(14,"Ram Kumar", 45,56,67,56,80,50);**

**it has to be printed as follows when s.calculate() and s.getdata() are invoked and finally the result has to be printed using toString()**

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Student's Report

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**Rollno : 14**  
**Student name : Ram Kumar**  
**Mark1 : 45**  
**Mark2 : 56**  
**Mark3 : 67**  
**Mark4 : 56**  
**Mark5 : 80**  
**Mark6 : 50**

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Ram Kumar passed with total of 354