

Write down the following Example and Exercise on your observation and execute the programs according to the instruction given.

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

~~~~~

**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() is used to calculate total and result of the exam such as "passed " or "failed" to store in the string variable Result and s.getdata() are invoked to print the following

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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

~~~~~

and finally the result has to be printed using toString() using System.out.println(obj) to print the following

Ram Kumar passed with total of 354.