interface empInfo {

void setEmpDetails(String name, int EmpID);

void DispEmpDetails();

}

interface salCal {

void calBasicSal();

void calBonus();

}

interface payProcess {

void payProcess();

void genSlip();

}

class PayrollProcessor implements payProcess {

public void payProcess() {

System.out.println("Payroll processed successfully.");

}

public void genSlip() {

System.out.println("Payslip generated successfully.");

}

}

class Employee implements empInfo, salCal {

private String name;

private int EmpID;

private double basicSalary;

private double bonus;

public Employee() {

this.name = "";

this.EmpID = 0;

this.basicSalary = 0.0;

this.bonus = 0.0;

}

public void setEmpDetails(String name, int EmpID) {

this.name = name;

this.EmpID = EmpID;

}

public void DispEmpDetails() {

System.out.println("Employee: " + name + ", ID: " + EmpID + ", BasicSal:" + basicSalary + ", bonus:" + bonus);

}

public void calBasicSal() {

// Logic for calculating basic salary

basicSalary = 50000;

}

public void calBonus() {

// Logic for calculating bonus

bonus = 10000;

}

}

class SalaryManagementSystem implements empInfo, salCal, payProcess {

private Employee employee;

private PayrollProcessor payrollProcessor;

public SalaryManagementSystem() {

employee = new Employee();

payrollProcessor = new PayrollProcessor();

}

public void setEmpDetails(String name, int EmpID) {

employee.setEmpDetails(name, EmpID);

}

public void DispEmpDetails() {

employee.DispEmpDetails();

}

public void calBasicSal() {

employee.calBasicSal();

}

public void calBonus() {

employee.calBonus();

}

public void payProcess() {

payrollProcessor.payProcess();

}

public void genSlip() {

payrollProcessor.genSlip();

}

}

public class lab4 {

public static void main(String[] args) {

SalaryManagementSystem s1 = new SalaryManagementSystem();

s1.setEmpDetails("L Vinay", 2347126);

s1.DispEmpDetails();

s1.calBasicSal();

s1.calBonus();

s1.payProcess();

s1.genSlip();

SalaryManagementSystem s2 = new SalaryManagementSystem();

s2.setEmpDetails("Kumar", 2347125);

s2.DispEmpDetails();

s2.calBasicSal();

s2.calBonus();

s2.DispEmpDetails();

s2.payProcess();

s2.genSlip();

}

}

