Practical 3

1.public class Employee {

private String name;

private int age;

private double salary;

// Getters and Setters

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

}

public class Encapsulation {

public static void main(String[] args) {

Employee emp = new Employee();

emp.setName("John");

emp.setAge(30);

emp.setSalary(50000.0);

System.out.println("Employee Name: " + emp.getName());

System.out.println("Employee Age: " + emp.getAge());

System.out.println("Employee Salary: " + emp.getSalary());

}

}

public class Employee {

private String name;

private int age;

private double salary;

// Constructor

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

this.name = name;

this.age = age;

this.salary = salary;

}

// Getters

public String getName() {

return name;

}

public int getAge() {

return age;

}

public double getSalary() {

return salary;

}

}

public class TestEncapsulation {

public static void main(String[] args) {

Employee emp = new Employee("John", 30, 50000.0);

System.out.println("Employee Name: " + emp.getName());

System.out.println("Employee Age: " + emp.getAge());

System.out.println("Employee Salary: " + emp.getSalary());

}

}

Exercise 3-2

public class Employee {

private String empName;

private double basicSalary;

private double bonus;

// Constructor with parameters for Employee Name and Basic Salary

public Employee(String empName, double basicSalary, double bonus) {

this.empName = empName;

this.basicSalary = basicSalary;

this.bonus = bonus;

}

// Getter and Setter for Employee Name

public String getEmpName() {

return empName;

}

public void setEmpName(String empName) {

this.empName = empName;

}

// Getter and Setter for Basic Salary

public double getBasicSalary() {

return basicSalary;

}

public void setBasicSalary(double basicSalary) {

this.basicSalary = basicSalary;

}

// Getter and Setter for Bonus

public double getBonus() {

return bonus;

}

public void setBonus(double bonus) {

this.bonus = bonus;

}

public double calBonusamount() {

return basic salary +bonus ;

}

}

public class Emp {

public static void main(String[] args) {

// Create an Employee object using the constructor and pass the Bonus value

Employee emp = new Employee("John Doe", 50000.0, 10000.0);

// Display the Employee Name, Basic Salary, and Bonus using getters

System.out.println("Employee Name: " + emp.getEmpName());

System.out.println("Basic Salary: " + emp.getBasicSalary());

System.out.println("Bonus: " + emp.getBonus());

System.out.println("Bonus amount: " + emp.calBonusamount());

}

}