**Java lab sheet-03**

1).

// Employee class with encapsulation

class Employee {

private String name;

private int age;

private double salary;

// Constructor with parameters

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

this.name = name;

this.age = age;

this.salary = 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 TestEmployee {

public static void main(String[] args) {

// Creating an Employee object using constructor

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

// Get and print employee details

System.out.println("Employee Details:");

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

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

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

// Updating employee details using setters

emp.setName("Jane Smith");

emp.setAge(35);

emp.setSalary(60000.0);

// Get and print updated employee details

System.out.println("\nUpdated Employee Details:");

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

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

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

}

}

**2).**class Employee {

private String name;

private double basicSalary;

private double bonus;

// Constructor to initialize name, basicSalary, and bonus

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

this.name = name;

this.basicSalary = basicSalary;

this.bonus = bonus;

}

// Getter and Setter for name

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

// Getter and Setter for basicSalary

public double getBasicSalary() {

return basicSalary;

}

public void setBasicSalary(double basicSalary) {

this.basicSalary = basicSalary;

}

// Getter for bonus

public double getBonus() {

return bonus;

}

// Calculate Bonus Amount

public double calculateBonusAmount() {

return basicSalary + bonus;

}

}

public class TestEmployee {

public static void main(String[] args) {

// Create an Employee object with name, basicSalary, and bonus

Employee employee = new Employee("Bogdan", 50000, 10000);

// Print the employee details and bonus amount

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

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

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

System.out.println("Bonus Amount: " + employee.calculateBonusAmount());

}

}