LAB SHEET 03 : ENCAPSULATION – ANSWERS

```java
public class Employee {

    private String name;

    private int age;

    private double salary;

    private double bonus;


    // Constructor to set the bonus value

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

        this.name = name;

        this.age = age;

        this.salary = salary;

        this.bonus = bonus;

    }


    // Getter and Setter for Name

    public String getName() {

        return name;

    }


    public void setName(String name) {

        this.name = name;

    }
```

```java
// Getter and Setter for Age
public int getAge() {
    return age;
}

public void setAge(int age) {
    this.age = age;
}

// Getter and Setter for Salary
public double getSalary() {
    return salary;
}

public void setSalary(double salary) {
    this.salary = salary;
}

// Getter for Bonus
public double getBonus() {
    return bonus;
}
```

```java
    // Method to calculate Bonus Amount (Bonus + Basic Salary)
    public double calculateBonusAmount() {
        return salary + bonus;
    }
}


public class TestEmployee {
    public static void main(String[] args) {
        // Create an employee object using the constructor
        Employee employee = new Employee("Bogdan", 30, 50000, 10000);

        // Output employee details using the getters
        System.out.println("Employee Name: " + employee.getName());
        System.out.println("Basic Salary: " + employee.getSalary());
        System.out.println("Bonus: " + employee.getBonus());
        System.out.println("Bonus Amount: " + employee.calculateBonusAmount());
    }
}
```