**Develop a code for the following scenario.**

"An encapsulated class contains three variables to store Name, Age and Salary of the employee. Evelop getters and setters to set and get values . Develop a test class to test your code."

Now modify the same code by trying to replace the setters using a constructor.

**Code for the last example has been discussed during the class. We need the following Output. (Use Netbeans code generation option where necessary)**

Employee Name: xxxxx (Use setter to set and getter to retrieve)

Basic Salary: xxxx (Use setter to set and getter to retrieve)

Bonus: xxxx (You may use the constructor to pass this value)

Bonus Amount: X (Develop a separate method to calculate Bonus amount. Bonus amount is the total of Bonus and Basic Salary)

E.g.

Employee Name: Bogdan
Basic Salary: 50000
Bonus: 10000
Bonus Amount: 60000

## Answers

```
public class Employee {

    private String name;

    private int age;

    private double basicSalary;
```

```java
    public Employee(String name, int age, double basicSalary) {

        this.name = name;

        this.age = age;

        this.basicSalary = basicSalary;

    }

    // Getter and setter methods for name

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

    // Getter and setter methods for age

    public int getAge() {

        return age;

    }

    public void setAge(int age) {

        this.age = age;

    }

    // Getter and setter methods for basicSalary

    public double getBasicSalary() {

        return basicSalary;

    }
```

```java
    public void setBasicSalary(double basicSalary) {

        this.basicSalary = basicSalary;

    }


    // Method to calculate bonus amount

    public double calculateBonusAmount(double bonus) {

        return basicSalary + bonus;

    }

}

public class TestEmployee {

    public static void main(String[] args) {

        // Create an Employee object using the constructor

        Employee employee = new Employee("Bogdan", 30, 50000);


        // Use setter and getter methods

        employee.setName("Bogdan");

        employee.setAge(30);

        employee.setBasicSalary(50000);


        // Print employee details using getter methods

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

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

```java
        // Pass bonus using the constructor and calculate bonus amount

        double bonus = 10000;

        System.out.println("Bonus: " + bonus);

        double bonusAmount = employee.calculateBonusAmount(bonus);

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

    }

}
```

**OUTPUT**

Employee Name: Bogdan

Basic Salary: 50000

Bonus: 10000

Bonus Amount: 60000