

Person Example

```
public class Person {
    /* Attributes */
    double weight; /* kilograms */
    double height; /* meters */
    /* Constructor */
    Person (double weight, double height) {
        this.weight = weight;
        this.height = height;
    }
    /* Accessor/Getter: Body Mass Index */
    double getBMI() {
        double bmi = this.weight / (this.height * this.height);
        return bmi;
    }
    /* Mutator/Setter: Change of Weight */
    void gainWeight(double amount) {
        this.weight = this.weight + amount;
    }
}
```

Tester/ Application

```
1 public class PersonTester {
2     public static void main(String[] args) {
3         Person alan = new Person(72, 1.72);
4         Person tom = new Person(65, 1.81);
5         System.out.print("Alan's BMI: ");
6         System.out.printf("%.2f\n", alan.getBMI());
7         System.out.print("Tom's BMI: ");
8         System.out.printf("%.2f\n", tom.getBMI());
9         alan = tom;
10        alan.gainWeight(3);
11        System.out.println("==== After Alan gained 3 kgs =====");
12        System.out.print("Alan's BMI: ");
13        System.out.printf("%.2f\n", alan.getBMI());
14        System.out.print("Tom's BMI: ");
15        System.out.printf("%.2f\n", tom.getBMI());
16    }
17 }
```

Data Model

Console Output.

```
Alan's BMI: 24.34
Tom's BMI: 19.84
==== After Alan gained 3 kgs =====
Alan's BMI: 20.76
Tom's BMI: 20.76
```