

```
package classes;

public class BMI {

    public BMI(String name, int age, double weight_kilo, double height_metre) {

        this.name = name;
        this.age = age;
        this.weight_kilo = weight_kilo;
        this.height_metre = height_metre;

        this.bmi = this.calculateBMI();
    }

    public void displayBMI() {

        String interpretation = BMI.getInterpretation(this.bmi);

        System.out.printf("Your BMI: %.2f\n", this.bmi);
        System.out.printf("Interpretation: %s weight\n", interpretation);
    }

    private double calculateBMI() {

        return this.weight_kilo / (this.height_metre * this.height_metre);
    }

    public static String getInterpretation(double bmi) {

        if (bmi < 18.5) return "Underweight";
        if (bmi < 25.0) return "Normal";
        if (bmi < 30.0) return "Overweight";
        return "Obese";
    }

    public static double convertPoundToKilo(double pounds) {

        return pounds * BMI.KILO_PER_POUND;
    }

    public static double convertFeetToMetre(int feet, int inches) {

        return ((feet * 12) + inches) * BMI.METRE_PER_INCH;
    }

    private static final double KILO_PER_POUND = 0.45359237;
    private static final double METRE_PER_INCH = 0.0254;

    private final String name;
    private final int age;
    private final double weight_kilo;
    private final double height_metre;
    private final double bmi;

    public String getName() {

        return this.name;
    }

    public int getAge() {

        return this.age;
    }

    public double getWeightKilo() {

        return weight_kilo;
    }
}
```

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```
public double getHeightMeter() {  
    return height_metre;  
}  
  
public double getBMI() {  
    return this.bmi;  
}  
}
```