

BMI

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package Program01;

public class BMI {
    private String name;
    private int age;
    private double weight;
    private double height;
    private double feet;
    private double inches;
    private double bmi;
    private String itp;
    public BMI(){

    }
    public BMI(String name, int age, double weight, double feet, double
inches) {
        this.name = name;
        this.age = age;
        this.weight = weight;
        this.feet = feet;
        this.inches = inches;
        this.height = (feet*12 + inches)*0.0254;//height to meter
    }
    public String getName() {
        return name;
    }
    public int getAge() {
        return age;
    }
    public double getWeight() {
        return weight;
    }
    public double getFeet() {
        return feet;
    }
    public double getInches() {
        return inches;
    }
    public double getBMI(){
        bmi = weight/Math.pow(height, 2);
        return bmi;
    }
    public String getInterpretation(){
        if(bmi < 18.5){
            itp = "Underweight";
        }
        else if (bmi>=18.5 && bmi<25){
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        itp = "Normal weight";
    }
    else if (bmi>=25 && bmi<30){
        itp = "Overweight";
    }
    else {
        itp = "Obese";
    }
    return itp;
}
}

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Main

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package Program01;

import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        BMI bmi ;
        int w_type,h_type;
        System.out.print("Enter name and age : ");
        String name = input.next();
        int age = input.nextInt();
        System.out.print("Weight (input format: 1=kg 2=pound value) : ");
        w_type = input.nextInt();
        double weight = input.nextDouble();
        switch(w_type){
            case 1:
                break;
            case 2:
                weight=weight*0.45359237;
                break;
            default:
                System.out.println("Error ,input format should be (1) or (2).");
                break;
        }
        System.out.print("Height (input format: 1=meter 2=feet-inch) : ");
        h_type = input.nextInt();
        double feet = 0;
        double inches = 0;
        double height = 0;
        switch(h_type){
            case 1 :

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        height = input.nextDouble();
        inches = height/0.0254;
        break;
    case 2 :
        feet = input.nextDouble();
        inches = input.nextDouble();
    }
    bmi = new BMI(name,age,weight,feet,inches);
    System.out.printf("Your BMI : %.2f \n",bmi.getBMI());
    System.out.println("Interpretation : " + bmi.getInterpretation());
    input.close();
}
}
```