1. Can you add simple BMI calculator to this window with basic OOP principles? Send as zip attachment #3.

**Java Code**

**BMI.java**

java

Copy code

public class BMI {

private double weight;

private double height;

public BMI(double weight, double height) {

this.weight = weight;

this.height = height;

}

public double calculateBMI() {

return weight / (height \* height);

}

public String getBMICategory() {

double bmi = calculateBMI();

if (bmi < 18.5) {

return "Underweight";

} else if (bmi >= 18.5 && bmi < 24.9) {

return "Normal weight";

} else if (bmi >= 25 && bmi < 29.9) {

return "Overweight";

} else {

return "Obesity";

}

}

}

**BMICalculator.java**

java

Copy code

import java.util.Scanner;

public class BMICalculator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter weight in kilograms: ");

double weight = scanner.nextDouble();

System.out.print("Enter height in meters: ");

double height = scanner.nextDouble();

BMI bmi = new BMI(weight, height);

double bmiValue = bmi.calculateBMI();

String bmiCategory = bmi.getBMICategory();

System.out.printf("Your BMI is: %.2f\n", bmiValue);

System.out.println("You are classified as: " + bmiCategory);

scanner.close();

}

}

Dockerfile

# Use the official OpenJDK image from the Docker Hub with JDK

FROM docker.io/library/openjdk:11-slim

# Set the working directory in the container

WORKDIR /app

# Copy the Java files into the container

COPY BMI.java /app

COPY BMICalculator.java /app

# Compile the Java files

RUN javac BMI.java BMICalculator.java

# Run the Java program

CMD ["java", "BMICalculator"]

Ouput:



