

04.05 Assignment Instructions

Instructions: Write a program to calculate Body Mass Index (BMI) given a person's height and weight. Use previous assignments and demo programs as models.

1. Create a new project called 04.05 Body Mass Index in your Mod04 Assignments folder.
2. Create a class called BMI in the newly-created project folder.

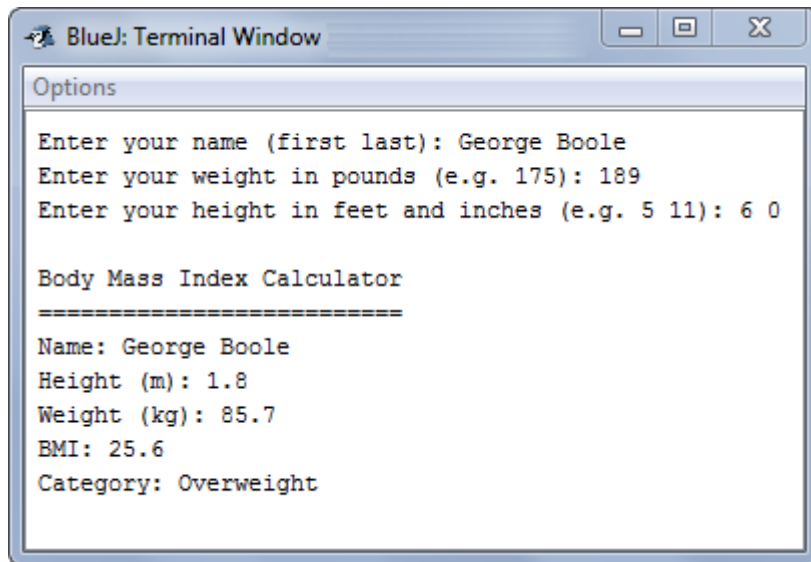


3. Ask the user to enter their first name and last name, height (in feet and inches), and weight (in pounds). You should have conversion factors for English to metric units available from an earlier program.
4. Height will be entered in feet and inches as indicated in the screen shot of expected output shown below (e.g. 5 10 represents 5 feet 10 inches).
5. Use the standard formula in metric units to calculate the BMI. Formula: $\text{weight} / \text{height}^2$. Where weight is in kilograms and height is in meters.
6. Interpret the BMI value to provide a weight status using the following table:

| BMI | Weight Status |
|----------------|--------------------------|
| Below 18.5 | Underweight |
| 18.5—24.9 | Normal or Healthy Weight |
| 25.0—29.9 | Overweight |
| 29.9 and Above | Obese |

7. Display the output in a user-friendly fashion.

Expected Output: When the program runs correctly, you should see results similar to the following:



```
BlueJ: Terminal Window

Options

Enter your name (first last): George Boole
Enter your weight in pounds (e.g. 175): 189
Enter your height in feet and inches (e.g. 5 11): 6 0

Body Mass Index Calculator
=====
Name: George Boole
Height (m): 1.8
Weight (kg): 85.7
BMI: 25.6
Category: Overweight
```

 **Print**