

**22/SP-COP-2800-65294 Java Programming**

**Exercise 3.2**

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# Document Version Control

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# Document Purpose

The purpose of the document is to define the BMI calculator class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to provide the BMI scale for the information provided by the user.

## Technical Implementation Components

The class consists of multiple methods. First, getPounds() is called and prompts the user to enter a value in pounds. The value then passed to the convertToKilograms() method which converts the provided value to kilograms. Next, the getFeet() method is called and prompts the user to enter a value in feet. The value is then passed to the convertToInches() method which converts the provided value to inches. Next, the user is prompted to enter the number of inches left over from the provided feet. The inches are totaled up, and then converted to centimeters by the converToCentimerters() method. Then the calulateBMI() method is called and converts the provided vales to a BMI number. The value is then displayed to the user and finally, the checkRange() method is called and provides feedback depending on the BMI value.

## BMI Calculator Implementation

The BMI Calculator will return a BMI value dependent on what the user in puts. The BMI value will be compared to an actual BMI chart and display the range the BMI value falls in.