

### Exercise #1:

There are three ways to compare String in Java:

1. By Using equals() Method
2. By Using == Operator
3. By compareTo() Method

Explain the difference in your own words.

## Exercise 2

Explain in your own words (Arabic or English), what is a variable? and what is a Boolean? Then give a clear example ...

## Exercise 3

1. Define “char letter”
  2. Define “boolean isChar”
  3. Take the value of “letter” from the user
  4. Check if “letter” is alphabetical character
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## Exercise 4

Write a program that calculates the Body Mass Index (BMI) from a user's weight and height.

The BMI is a measure of some's weight taking into account their height. e.g. If a tall person and a short person both weigh the same amount, the short person is usually more overweight.

The BMI is calculated by dividing a person's weight (in kg) by the square of their height (in m):

$$BMI = \frac{weight (kg)}{height^2 (m^2)}$$

### Example Input

```
weight = 80  
height = 1.75
```

### Example Output

$80 \div (1.75 \times 1.75) = 26.122448979591837$