Exercise – Primitives and simple maths

Objective

The objective of this exercise is to have some practice with declaring and using basic primitives in Java Programming.

Overview

Create a class with a main method in.

1. Create two variables called name and age. Work out what type you need to use for these
2. Set the value for name and age to something, you don't have to be honest!
3. Print out your name and age using the variables
4. Modify your print statements to print out something more informative, such as "My age is... 21". You should use the string concatenation symbol, **+**
5. Reassign your age to be something different and print it out
6. Write an expression that calculates the equation of a line and prints out each part to the screen

   The equation is: $y = m * x + c$

   Where m is 1, x is 0.5 and c is 15

   You need to calculate the value of y (it not be a whole number, so make sure you get the correct value rather than a rounded one.)

7. Create a boolean value for isRaining and give it a value
8. Create another boolean, happy and give it a different value to isRaining
9. Combine the two booleans using the logical operators (and, or, not) to print out the value when:
   a. it is raining and we're happy
   b. it is raining and we're not happy
   c. it is not raining and we're happy
   d. it is not raining and we're not happy

   Then change the 'and' in the sentences to 'or'. Notice the difference it makes when you use or in a statement.