

Exercise – Primitives and Simple Maths

Objective

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

Overview

Open a new .py file or Jupyter Notebook

1. Create two variables called name and age and set the value for name and age to something, you don't have to be honest!
2. Print out your name and age using the variables.
3. Modify your print statements to print out something more informative, such as "My age is... 21".
4. Reassign your age to be something different and print it out
5. 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 is not a whole number, so make sure you get the correct value rather than a rounded one.)

6. Create a boolean (bool) value for isRaining and give it a value.
7. Create another boolean (bool), happy and give it a different value to isRaining
8. 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.