A (debatably) Brief Introduction to Python

ASSIGNMENT 1: FUNCTIONS 'N' STUFF

So, in chapter 1 we learnt a lot of stuff, so we're about to *do* a lot of stuff to complement our newfound knowledge. Without further ado, here are the problems:

- Create a function `sqrt(num)` that returns the square root of `num`.
- We know that, in a quadratic function $y = ax^2 + bx + c$, the roots can be calculated with the quadratic formula, $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. Using this knowledge, create a function `quad_roots(coeff1, coeff2, coeff3)` that returns the roots of a function $y = (coeff1)x^2 + (coeff2)x + coeff3$. **Quick python tip: in order to return multiple values in a function, do this:** `return a, b, c, ….` Essentially, include as many things as you want, while sseparating them with commas. Also, in order to store the output of a function like this in multiple variables, you would do that like so: `var1, var2, var3, … = foo()`, where `foo` returns multiple values.
- Finally, create a function `print_add_many(num1, num2)` that prints the sum of `num1` and `num2` 30 times.