EEE102 Assignment
Python Basics

Instructions: Create the necessary code to solve each number. Make sure to separate your solutions according to function. Compile your solution into one python file (.py).
File name: section-surname.py *(eece1-sanglitan.py)*

1. Consider the Pythagorean Theorem where $C^2 = A^2 + B^2$. Create a function that accepts the values of **a** and **b** and outputs the value of **c** according to the theorem.

2. Given the quadratic equation $ax^2 + bx + c = 0$, create a python function that outputs the **solutions** to the quadratic equation using the **quadratic formula**. This function should have three parameters, **a**, **b** and **c**. *Do not put into considertion the possibility of imaginary roots, just use the quadratic formula for this number.*

3. Create a python the distance between two points using the **distance formula**. This function should be able to accept two variables only, **pt1 and pt2.**

*Hint: pt1 and pt2 should be **tuples.***

Sample:

eece1-sanglitan.py

```
1  def pythagorean(a, b):
2      # insert code here
3
4  def quad_roots(a, b, c):
5      # insert code here
6
7  def distance(pt1, pt2):
8      # insert code here
```