# C++ Program 1: Pythagorean Theorem

Problem Statement: To Calculate the Pythagorean Theorem with the user entering Side A and B (Legs of the Triangle) of a Triangle and the program calculates and outputs Side C (Hypotenuse) of the Triangle.

Directions: Provide the following output/input for the user to follow and the final answer statement

**//Include Libraries**

#include <iostream>

#include < math.h>

using namespace std;

**Declare Variables:** A, B, and C // What type of variables will these be? double (real number) or int (integer/whole number)

**Output:** Pythagorean Theorem Calculator

**Output:** Blank Line (endl or \n)

**Output:** User Enter Side A of Triangle:

**Input:** User enters Side A

**Output:** Blank Line (endl or \n)

**Output:** User Enter Side B of Triangle

**Input:** User Enters Side B

**Output:** Blank Line (endl or \n)

**Calculate Pythagorean Theorem.**

NOTE: Consider the following

- Variable A, B, and C will they be Real numbers (variable type: double) or Integers (variable type: int) when declared
- Use Parentheses () when calculating the power of a and b
- Square root Write Code as: c = sqrt (variable c)

**Output:** Side C of Triangle is: "OUTPUT VALUE OF C" // this should be on all one line.

**Submission**: Show Teacher final program output

Print a copy of the final code to turn in