

## Homework assignment 8

For this assignment, you will be creating 2 functions. A main function that gets called from the button and a secondary function called findHypotenuse() that calculates a hypotenuse. The main function will “call” the findHypotenuse() function when it needs a hypotenuse calculated. The findHypotenuse() function will be located within your external function library. So you will need to upload 2 files. You can either zip the 2 files and upload, or just upload both files individually, one after the other.

A sample of the program is on the next page and you can download the template file at...

[http://newton.ncc.edu/gansonj/ite154/templates/ite154\\_hw10\\_tmplt.txt](http://newton.ncc.edu/gansonj/ite154/templates/ite154_hw10_tmplt.txt)

The form has the user input 2 integers representing the sides of a triangle, a and b. The "main" function will gather the input, use the findHypotenuse() to calculate the hypotenuse, and construct and display output.

To find the hypotenuse of a triangle, use the Pythagorean formula...

$$c^2 = a^2 + b^2$$

The value of C is the hypotenuse of the triangle.

**You must create 2 functions to receive credit for this assignment.** Your ‘main’ function that is called from the button, and your findHypotenuse() function. Again, the main function calls upon the findHypotenuse() function when it needs that value. Get the user’s input, call the function, and output your result.

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Remember, all homework assignments are due by the assigned due date. You may upload your assignment at anytime, but my website will not accept any assignments after the due date and time. You must type your assignments using any word processor or notepad++ / textwrangler. All assignments must be uploaded through my website to receive credit. Any questions, do not hesitate to email me.

**Find the Hypotenuse!**

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Enter the size in inches of the first side of the triangle

Enter the size in inches of the second side of the triangle

**Find the Third Side!**

The length of the third side is: 5.00 inches

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