

Hypotenuse Calculation

Task: Retrieve program righttrig.cpp from the Program folder. Once completed the program will calculate the hypotenuse of a right triangle. The program will ask an end-user to enter the length of the two legs of the right triangle. Using the righttrig.cpp files complete the computer program to calculate and display the length of the hypotenuse. Write the version of the program in C++. Your programs must match your algorithm!!!

Input: See course code for additional instructions.

Output: The C++ output should complete the source file.

Sample output:

Please enter first value: 6

Please enter second value: 8

The sides of the right triangle are 6.0 and 8.0

The hypotenuse is 10.0

Programming:

- Include internal and external documentation.
- Initial comments at the beginning of each program should provide the program name, your name, and a simple statement of what the program does.
- Include a meaningful prompt for the user.
- To avoid doing data conversions or losing data through integer truncations, use only real numbers in the calculations. A number constant will be treated as a real number if you include a decimal point and a trailing 0.

Submissions:

- Submit an electronic copy of the of your algorithm fist in the D2L dropbox. Due date is listed above.
- Then submit the **source code** files in the D2L dropbox. Due date is listed above. Algorithm is worth 5 points. Each program is worth 15 points.
- *Include your first initials/last name at the beginning of the name of any program submission.* Ex. RClark_Hypotenuse.docx