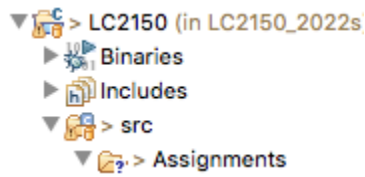


CPSC 2150 Assignment #0 (30 points)

1. Create a folder named "Assignments" underneath src.



2. Import the following files into the "Assignments" folder:

AllTests.h

DerivedTriangle.h

DerivedTriangle.cpp

3. Modify the code in DerivedTriangle.cpp so that the main function can call
testDerivedTriangle();
to display results as follows:

```
Triangle object  
color: orange  
filled: true  
side1: 3  
side2: 4  
side3: 1  
area: 0  
perimeter: 8
```

or

```
Triangle object  
color: orange  
filled: true  
side1: 3  
side2: 4  
side3: 5  
area: 6  
perimeter: 12
```

4. The area of a triangle object will return 0 if it is not a valid triangle.
5. Use Heron's formula to compute the area,

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

, where s is half the perimeter, or $(a + b + c)/2$.

Submissions:

- Make sure that your code is neat and is well commented [5 marks].
- Check that all of your programs work the way they are intended to work by running them with different inputs.
- Submit to D2L (AssessmentsàAssignments) a zip/archive file containing the .cpp you have written, and all other files needed to run the program. **For assignment 0, you only need to include DerivedTriangle.cpp in your zip file.**
- If you do not zip your file or if you submit the .o or .exr files, you may receive ZERO for this lab (<http://www.wikihow.com/Zip-Files-Together>).
- Use your first name initial and family name to name the zip file. For example, Sheldon Cooper's assignment 0 should be named SCooper_Assign0.zip.