

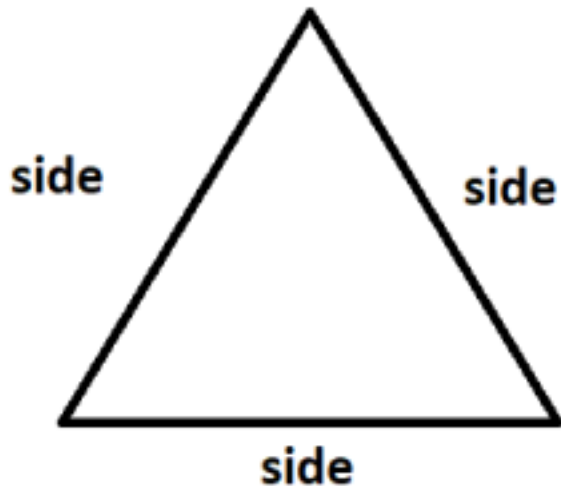
Specifications:

Prompt the user for the length of the side of an equilateral triangle (could be fractional/decimal) and calculate and display the area of the triangle.

Be sure to declare all necessary variables for all inputs and calculations.

Here is the formula for the area of an equilateral triangle ::

### EQUILATERAL TRIANGLE



$$\text{area} = (\text{side})^2 * \frac{\sqrt{3}}{4}$$

Your program shall display the following output EXACTLY as shown on the console screen :: Like so:

```
Run Main
"C:\Program Files\Java\jdk1.8.0_152\bin\java" ...
Enter the side length of an equilateral triangle: 7.6
The area of the equilateral triangle is: 25.010813661294584

Process finished with exit code 0
```

The program must compile, build, launch, and run correctly.

However -- the **\*\* MAIN \*\*** purpose of this project is to ensure that everyone knows how to prepare projects correctly for “turn-in for grading” out on GITLAB, and that you actually accomplish the turn-in correctly.

When you are done with the assignment there should be one self-written file(s), consisting of the source code file: MAIN.JAVA (along with any and all other associated IDEA files)

The final version of the program must have all the code for meeting the problem specifications.

Refer to the syllabus for instructions on how to submit your project for grading.