Shawn Stapel

Exercise 4-1: Planning

Write the algorithm for the problem below. You are not writing actual code, but rather pseudocode to help your planning. Ask yourself the following questions:

* How many variables will you need? **3**
* What are the data types of those variables? **double**
* How many variables are you displaying? **1**
* What are the data types of those variables? **double**
* What math must you perform? **Multiplication, division, Sine, and Tangent**
* Is there anything you need to check before you do this math? **That the top section of the area calculation is not a negative number**

Enter the length of the radius

Calculate what the length of a side is (S)

S=2r \* SIN PI divided by 5

Calculate area

A equals 5\*S squared

divided by 4 \* TAN(PI/5)

If top part is negative output invalid input

Else Output area equals (calculated area)