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**VIRGINIA STATE UNIVERSITY**  
Department of Computer Science  
CSCI495-01 iOS App Development (Fall 2022)

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1. Write a Swift function that accepts the lengths of three sides of a triangle as inputs. The function should indicate (print out) whether or not the triangle is an equilateral triangle.

- Use `The triangle is equilateral.` and `The triangle is not equilateral.` as your final outputs.

An example of the program inputs and output is shown below:

```
Enter the first side: 2
Enter the second side: 2
Enter the third side: 2
```

```
The triangle is equilateral.
```

2. Write a Swift function that accepts the lengths of three sides of a triangle as inputs. The function should indicate (print out) whether or not the triangle is a right triangle.

Recall from the Pythagorean theorem that in a right triangle, the square of one side equals the sum of the squares of the other two sides.

- Use `The triangle is a right triangle.` and `The triangle is not a right triangle.` as your final outputs.

An example of the program input and proper output format is shown below:

```
Enter the first side: 3
Enter the second side: 4
Enter the third side: 5
```

```
The triangle is a right triangle.
```

## Submitting Your Work

1. *Create* the program using Xcode and saving it to a file named, **lab04.swift**.
2. At the top of the empty file, write the following comment, modifying it to reflect your personal information. Writing these comments on top of your programs helps other developers understand basic information about your programs and is a good habit to develop.

```
/*  
 * Program: lab04.swift  
 *  
 * Author:  YOUR FULL NAME  
 * Date:    THE CURRENT DATE  
 * Course:  CSCI495  
 *  
 * Program Description:  
 *  
 * WRITE PROGRAM DESCRIPTION  
 *  
 */
```

For this lab you will electronically submit the **lab04.swift** file via **Blackboard**

**Due: 11:59PM, 9/23/2022**