

Python – Triangle Type

Purpose

This lab was designed to teach you how to make decisions in a program.

Description

Implement a Python function `print_triangle_type` that takes 3 floating point numbers representing the sides of a triangle and prints out the type of the triangle. A triangle is **Equilateral** if all 3 sides are equal, **Isosceles** if two sides are equal, and **Scalene** if no sides are equal.

The triangle inequality theorem is a theorem in Euclidean geometry that requires that the sum of any two sides of a triangle be greater than the third side. The function should check the validity of the 3 arguments and prints **Invalid Triangle** if the 3 sides don't make a triangle.

Program Shell

`triangle_type.py` is provided for you

Sample Execution

```
Passes 'max side' function
Passes 'is triangle' function

Equilateral
Equilateral
Isosceles
Isosceles
Isosceles
Scalene
Scalene
Scalene
Scalene
Invalid Triangle
Invalid Triangle
```