**McCabes Triangle Problem**

The problem statement generates and assigns the type of triangle on giving the input of length of the sides of the triangle.

Criteria here is to check if sum of length of any two side is greater than or equal to the third side for positive integers.

Algorithm:

output: Enter 3 sides ;

input: (a,b,c)

if(a,b,c aur > 0) {

if((a+b>=c) && (b+c>=a) && (c+a>=b))

//check if sum of any two sides is greater than or equal to the third side

{

If(a==b && b==c && c==a)

{ print: equilateral trinagle }

Else If((a==b && b==c) || (b==c && c==a) || (c==a && a==b)) // isosceles triangle

{ print: Isosceles triangle }

Else

{ print: scalene triangle }

}

Else

{ print: error }

}

input-> 3,3,3 output-> equilateral triangle.

Input -> 4,4,7 output-> error

Input ->1,2,3 output-> isosceles triangle

Input-> 4,5,9 output-> scalene triangle

Input -> -2,5,5 output-> error

Input -> -1,-3,-0.5 output-> error

Input -> 1.2,5.6,3.8 output-> error

Input -> -7,-7,-7 output-> error

Input -> 0,0,0 output-> error

Input -> 9,6,9 output-> isosceles triangle

Input -> III,IV,V output-> error