

```
1 import java.util.Scanner;
2
3
4 public class TrianglesTypes {
5
6     /**
7      * @author mahmoudmahmoud
8      * @date Saturday, Feb, 22, 2020
9      * Triangle types problem
10     */
11     public static void main(String[] args) {
12
13         Scanner scanner = new Scanner(System.in);
14
15         System.out.println("Please insert your first edge length..");
16         float edge1 = scanner.nextFloat();
17
18         System.out.println("Please insert your second edge length..");
19         float edge2 = scanner.nextFloat();
20
21         System.out.println("Please insert your third edge length..");
22         float edge3 = scanner.nextFloat();
23
24         // Check for negative
25         if(edge1 <= 0 || edge2 <= 0 || edge3 <= 0) {
26             System.out.println("Edges Can't be negative");
27             return;
28         }
29
30         // Validate edges length can form a triangle
31         if(edge1 + edge2 <= edge3 ||
32             edge1 + edge3 <= edge2 ||
33             edge2 + edge3 <= edge1) {
34             System.out.println("Edges values can't be valid for a triangle");
35             return;
36         }
37
38         if(edge1 == edge3 && edge2 == edge3) {
39             System.out.println("Triangle is Equilateral");
40             return;
41         }
42
43         if(edge1 == edge3 || edge2 == edge3 || edge1 == edge2) {
44             System.out.println("Triangle is Isosceles");
45             return;
46         }
47     }
48 }
```

```
46         }
47
48         System.out.println("Triangle is Scalene");
49
50     }
51 }
52
```