3/29/24, 5:12 PM Triangle.java

## Question 2 Triangle Verification\Triangle.java

```
public class Triangle {
 2
        private int x;
 3
        private int y;
 4
        private int z;
 5
 6
        // Constructor
 7
        public Triangle(int x, int y, int z) {
 8
             if (x < 0) {
 9
                 System.out.println("Warning: input x must not be negative!");
10
             } else {
                 this.x = x;
11
12
13
            if (y < 0) {
14
15
                 System.out.println("Warning: input y must not be negative!");
16
             } else {
17
                 this.y = y;
18
19
20
             if (z < 0) {
21
                 System.out.println("Warning: input z must not be negative!");
22
             } else {
23
                 this.z = z;
24
             }
25
        }
26
27
        // Getters
28
        public int getX() {
29
             return x;
30
31
32
        public int getY() {
33
             return y;
34
35
36
        public int getZ() {
37
             return z;
38
        }
39
        // Methods
40
41
        public String verify() {
42
             if (x + y \le z || x + z \le y || y + z \le x)  {
                 return "Not Triangle";
43
44
             } else if (x == y \&\& y == z) {
                 return "Equilateral Triangle";
45
             \} else if (x == y || x == z || y == z) {
46
                 return "Isosceles Triangle";
47
48
            } else {
49
                 return "Scalene Triangle";
50
             }
51
        }
52
    }
53
```