





Python App by: Boy from Nyahe



```
Is Triangle? 
main.py x >_ Console +
main.py > ...
1 # A SIMPLE APP TO SHOW IF ANY THREE NUMBERS CAN FORM A TRIANGLE
2
3 def is_triangle (a, b, c):
4     if a == 0 or b == 0 or c == 0:
5         if not isinstance ((a, b, c), int):
6             print ("Sorry! Dimensions", a, ",", b, "and", c, "have to be positive integers.")
7     if a + b < c or a + c < b or b + c < a:
8         print ("Dimensions", a, ",", b, "and", c, "cannot form a triangle.")
9     elif a + b == c or a + c == b or b + c == a:
10        if a > 0 and b > 0 and c > 0:
11            print ("Dimensions", a, ",", b, "and", c, "can form a degenerate triangle.")
12        elif a**2 + b**2 == c**2:
13            print ("Dimensions", a, ",", b, "and", c, "can form a right triangle.")
14        else:
15            if a + b > c or a + c > b or b + c > a:
16                print ("Dimensions", a, ",", b, "and", c, "can form a triangle.")
17
18 is_triangle (0, 1, 1)
19 is_triangle (1, 2, 4)
20 is_triangle (7, 9, 16)
21 is_triangle (6, 8, 13)
22 is_triangle (3, 4, 5)
23 is_triangle (-3, -4, -5)
```

```
Is Triangle? 
main.py >_ Console x +
python3 mai...
Sorry! Dimensions 0 , 1 and 1 have to be positive integers.
Dimensions 1 , 2 and 4 cannot form a triangle.
Dimensions 7 , 9 and 16 can form a degenerate triangle.
Dimensions 6 , 8 and 13 can form a triangle.
Dimensions 3 , 4 and 5 can form a right triangle.
Dimensions -3 , -4 and -5 cannot form a triangle.
```

