



Boolean & Branching

Discussion 1

	Data type	value
1 / 2	float	0.5
1 // 2	int	0
1 > 2`	bool	False
True	bool	True
"True"	str	"True"
3 < 3 and 3/0 > 0	bool	False
3/0 > 3 and 3 < 0	ZeroDivisionError: division by zero	
3 > 0 or 3/0 != 1	bool	True
5 < 6 > 3	bool	True

Discussion 2

	output	Discussion
Line1	True	<ul style="list-style-type: none">• Comparison has higher priority than and operator.• chained comparisons False or False or True => True
Line2	10 3 2	Multiple assignment automatic buffer floor division int type casting truncate
Line3	bigger	a =17, >8 true path
Line4	small	Indentation, same group as line 3
Line5	No display	a<9 is false so skip line 5
Line 6	small	No indentation, Statement after if a<9

Discussion 3

Access granted.

Discussion 4:

Check if the alarm should be triggered

alarm_triggered = motion_sensor and system_armed and (door_sensor or window_sensor)

Discussion 5:

Access granted.

Discussion 6:

Item 'durian' is unknown and will not be categorized.

Item 'tomato' is unknown and will not be categorized.

Fruits: 3

Vegetables: 3