

1.1 The voltage dropped from .3 to 0 when the button was pressed.

1.2 It could be, but there are better options

2.1.1 Yes, the voltage changed from 5 to 0 when the button was pressed.

2.1.2 Yes, this would be much more useful and reliable at determining the state of the button

2.2 pressed 0, released 1

3.1.1 Yes, the voltage changed from 0 to 5 when the button was pressed.

3.1.2 Yes, this would be useful and reliable at determining the state of the button

3.2 pressed 1, released 0

4 rather than being connected to +5v and the button shorting to ground, it's connected to ground and the button shorts to +5v

5.1

B1	B2	SS1	I1	I2
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
1	1	0	0	0
0	0	1	0	0
1	0	1	1	0
0	1	1	0	1
1	1	1	1	1

5.2

Input_2 = (PB2 & SS1)

OUTPUTS

6.1

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

0	0	1	0	0	0	0
1	0	1	1	Red	1	? (3.1)
0	1	1	1	Green	? (2.5)	1
1	1	1	1	0	1	1

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