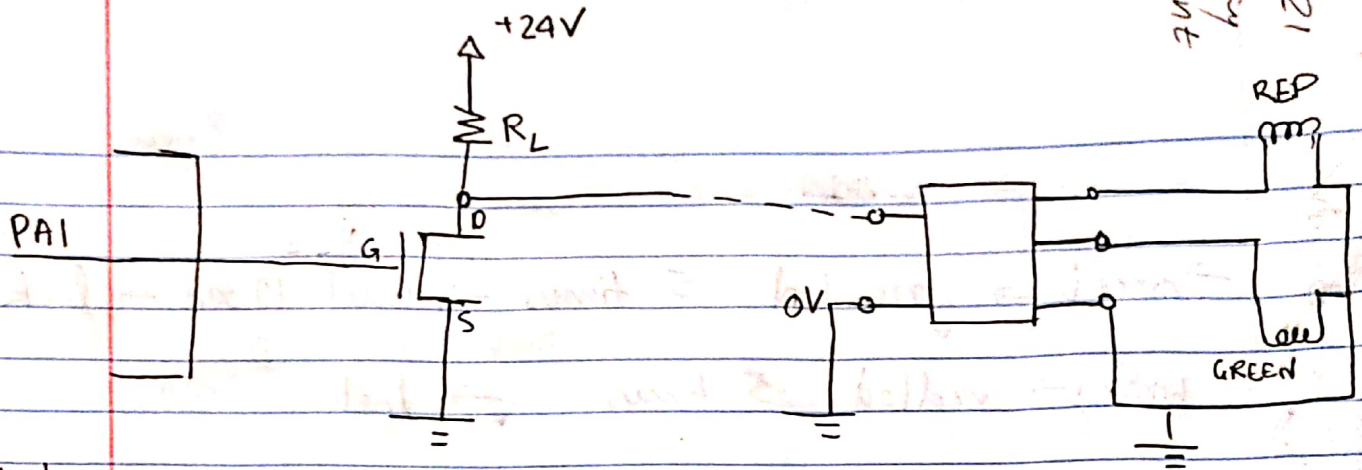
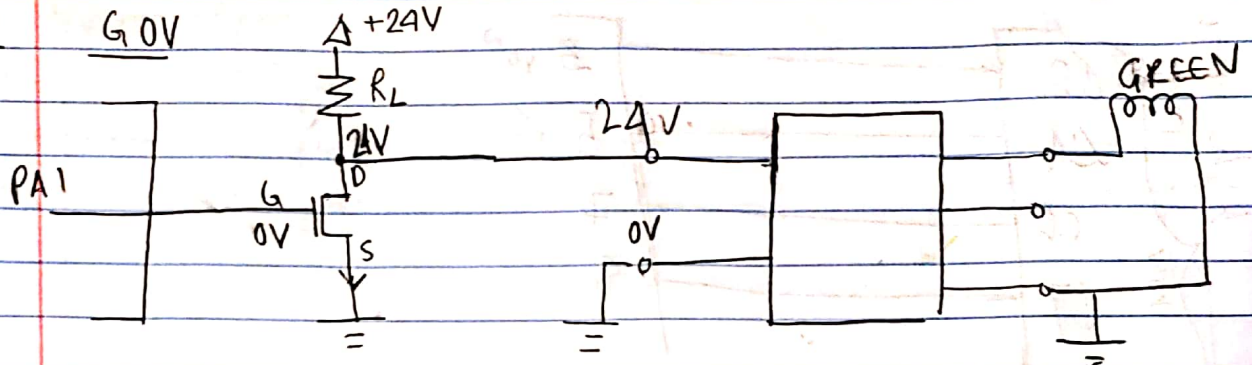


5721
day
point



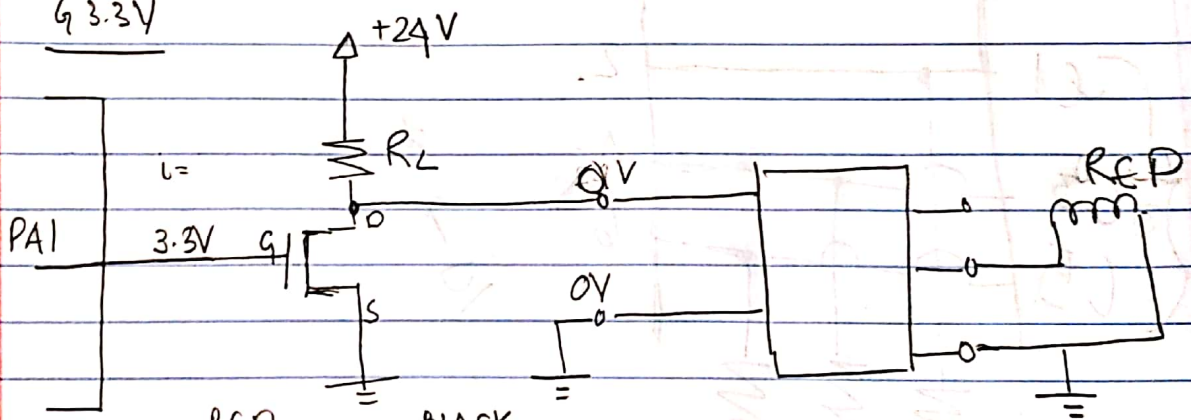
Lock

G 0V



Unlock

G 3.3V



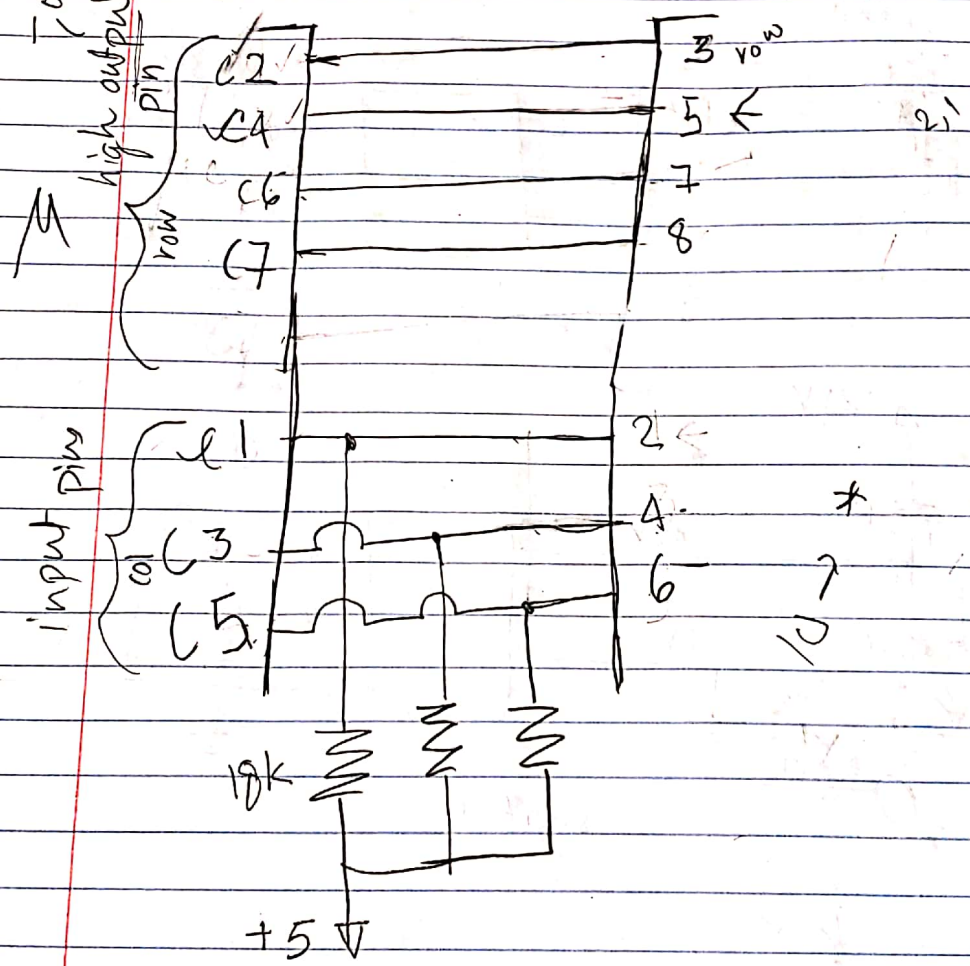
	RED	BLACK
1	3	4 ✓
2	2	3 ✓
3	3	6 ✓
4	4	8 ✓
5	2	8 ✓
6	6	8 ✓
7	4	7 ✓
8	2	7 ✓
9	6	7 ✓
0	2	5 ✓
#	5	6 ✓
*	4	5 ✓

start 0

- no pullup/pull down

- open drain
- fast speed

→ correct → green led 5 times → wait 10 sec → lock
→ wrong → red led 5 times → lock

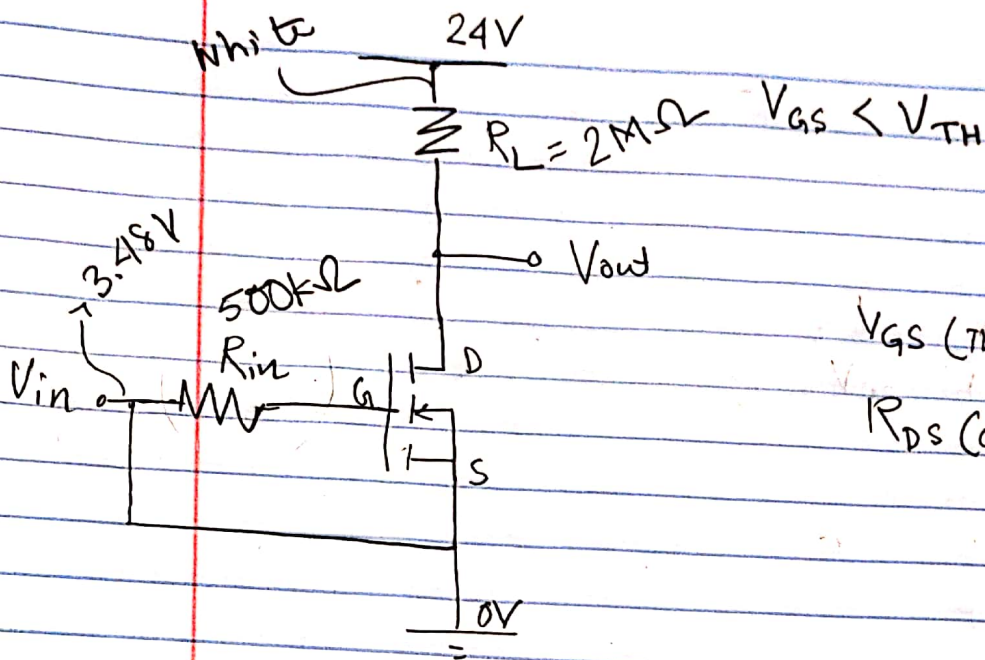


PA0 → Red led
PA1 → Green led
PA5 → Solenoid
} output, high push/pull default

3 4
2 5
1 6

475 Ω

3.3 V.



$V_{GS} (TH)$ 2.0 V_{dc}

$R_{DS} (ON)$ 1.8 Ω

74LS244

+5V

0V

1V