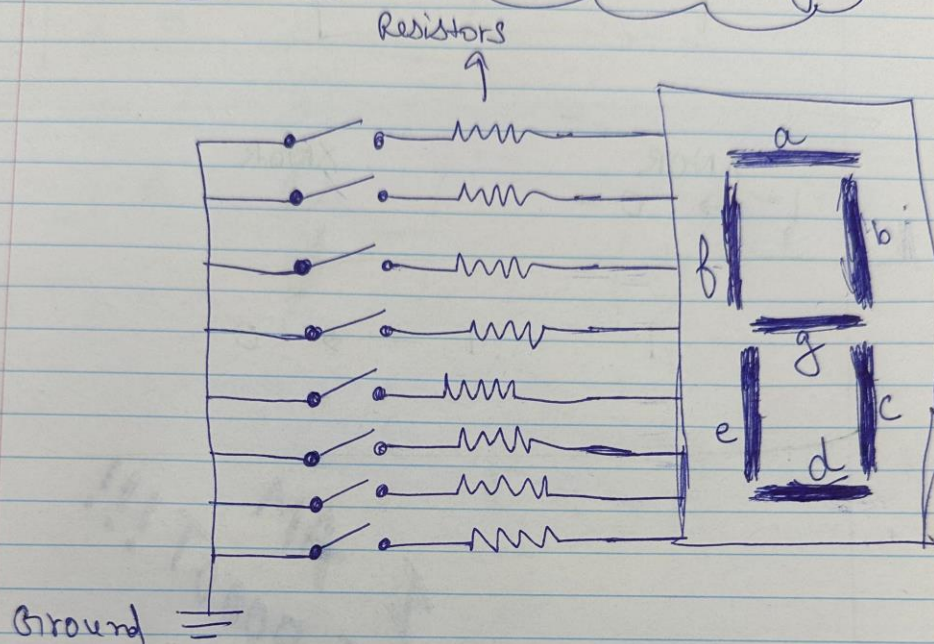


Bonus Task - Understanding of Circuits and IC

Hiten Diwan

July 22, 2024











The 7 Segment LED Display



We learnt :

- How the logic gates work to display the characters of the 7 segment displays.
- Total nos. ~~8~~ - 8
= 8 numbers.
= 2^3

~~Everything~~
Everything in multiple of 2.

Decimal	Input				Output							DISPLAY
	A	B	C	D	A	B	C	D	E	F	G	
0	0	0	0	0	1	1	1	1	1	1	0	
1	0	0	0	1	0	1	1	0	0	0	0	
2	0	0	1	0	1	1	0	1	1	0	1	
3	0	0	1	1	1	1	1	1	0	0	1	
4	0	1	0	0	0	1	1	0	0	1	1	
5	0	1	0	1	1	0	1	1	0	1	1	
6	0	1	1	0	1	0	1	1	1	1	1	
7	0	1	1	1	1	1	1	0	0	0	0	
8	1	0	0	0	1	1	1	1	1	1	1	
9	1	0	0	1	1	1	1	1	0	1	1	

This is how the input/output works in the 7 segment Display.
