

Binary to gray code conversion

WHAT IS A BINARY CODE ?

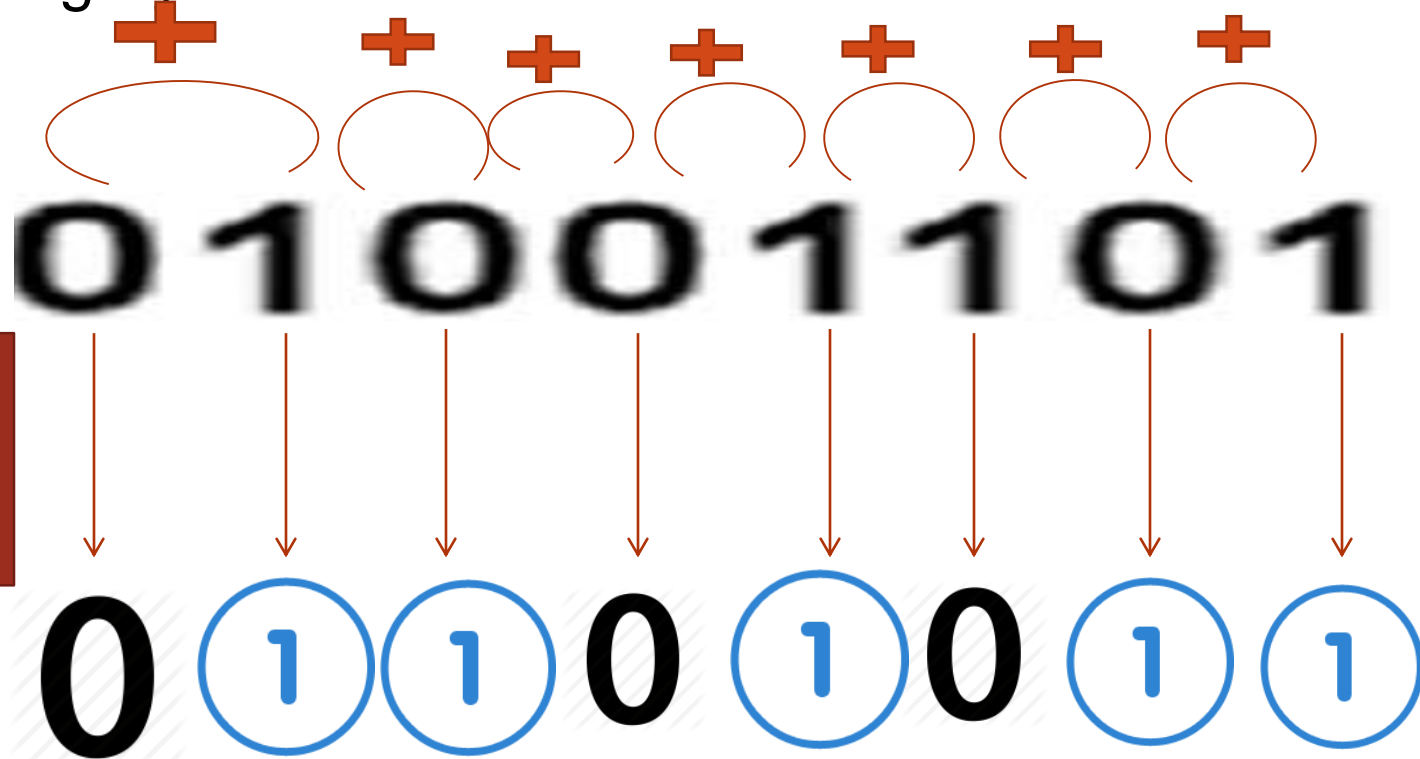
- A binary code represents text or computer processor instructions using the binary number system's two binary digits, 0 and 1. The binary code assigns a bit string to each symbol or instruction

What is gray code?

Decimal numbers	Binary code	Gray code
0	0000	0000
1	0001	0001
2	0010	0011
3	0011	0010
4	0100	0110
5	0101	0111
6	0110	0101
7	0111	0100
8	1000	1100
9	1001	1101
10	1010	1111

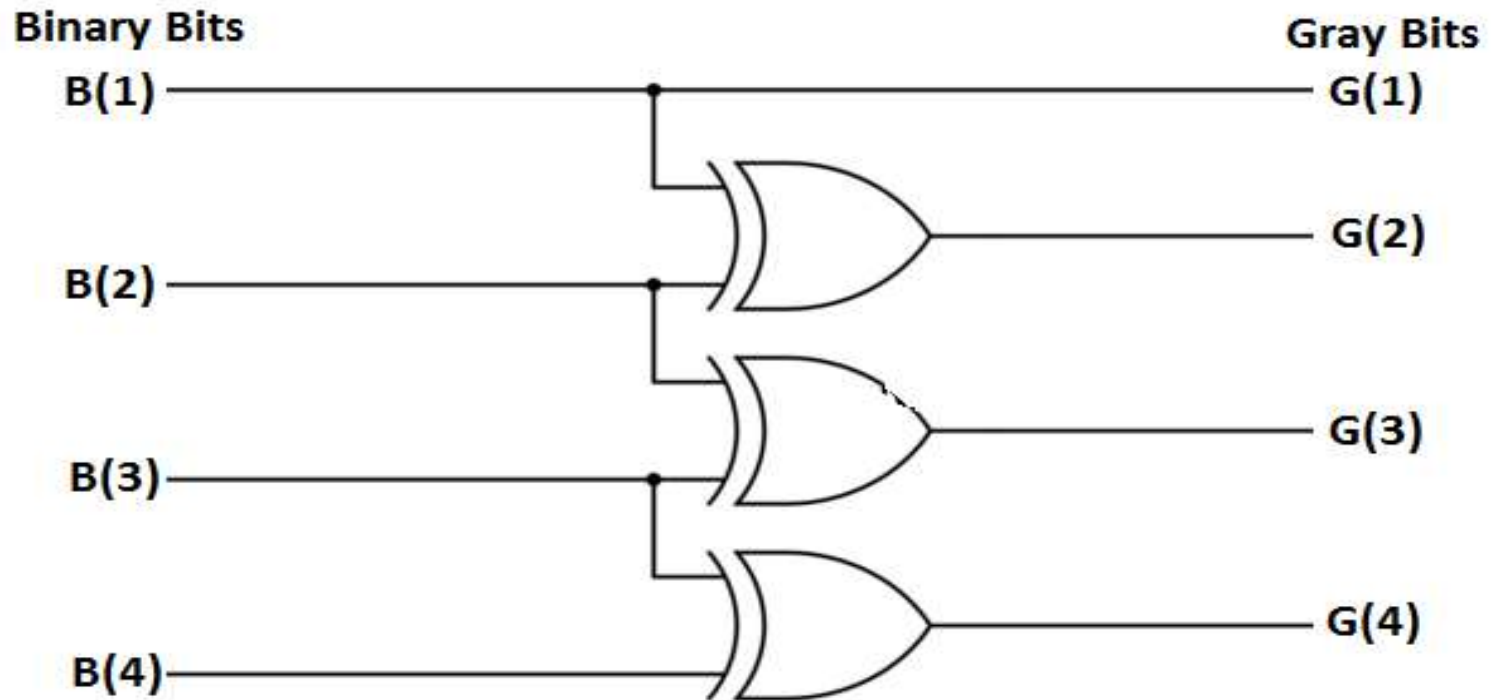
Binary to gray conversion

- Lets take a input string & we have to convert it into gray code



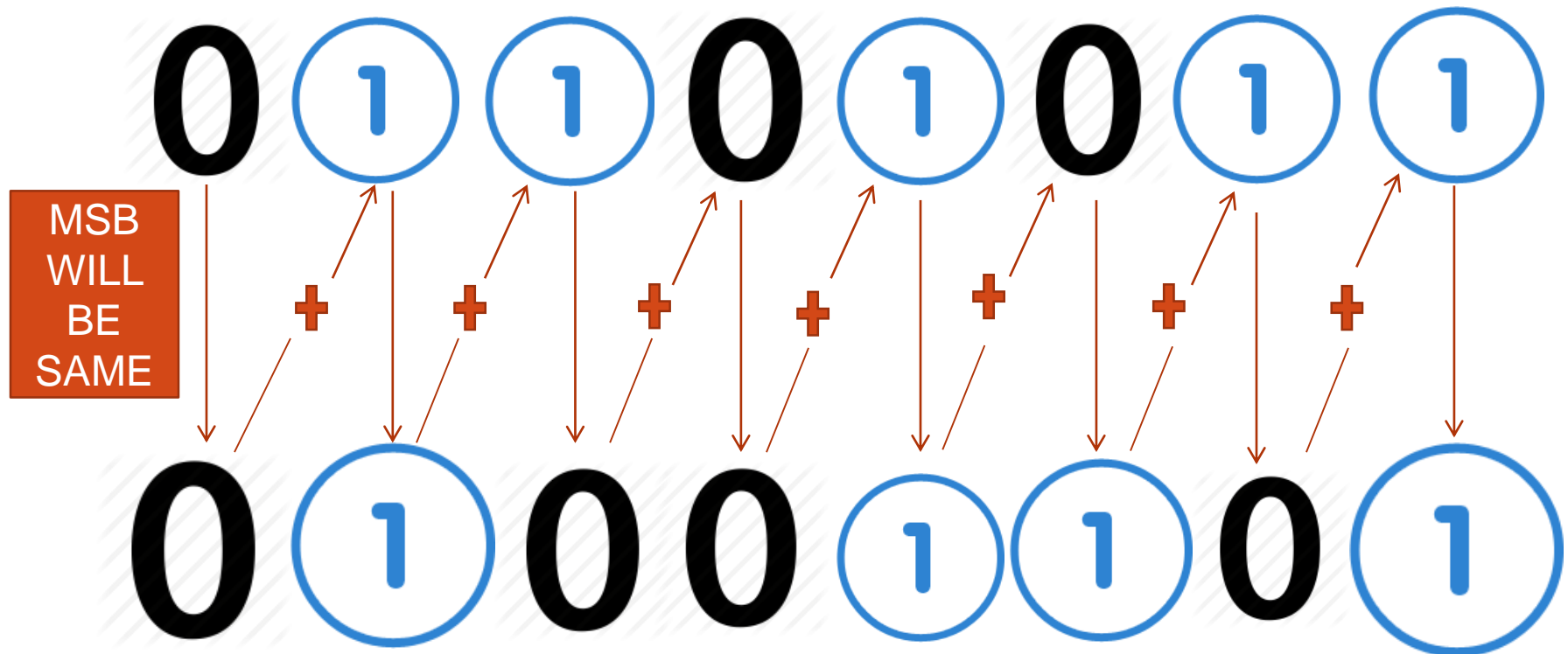
How to built it into a circuit ? What Could be the logic ?

Binary To Gray Code Conversion

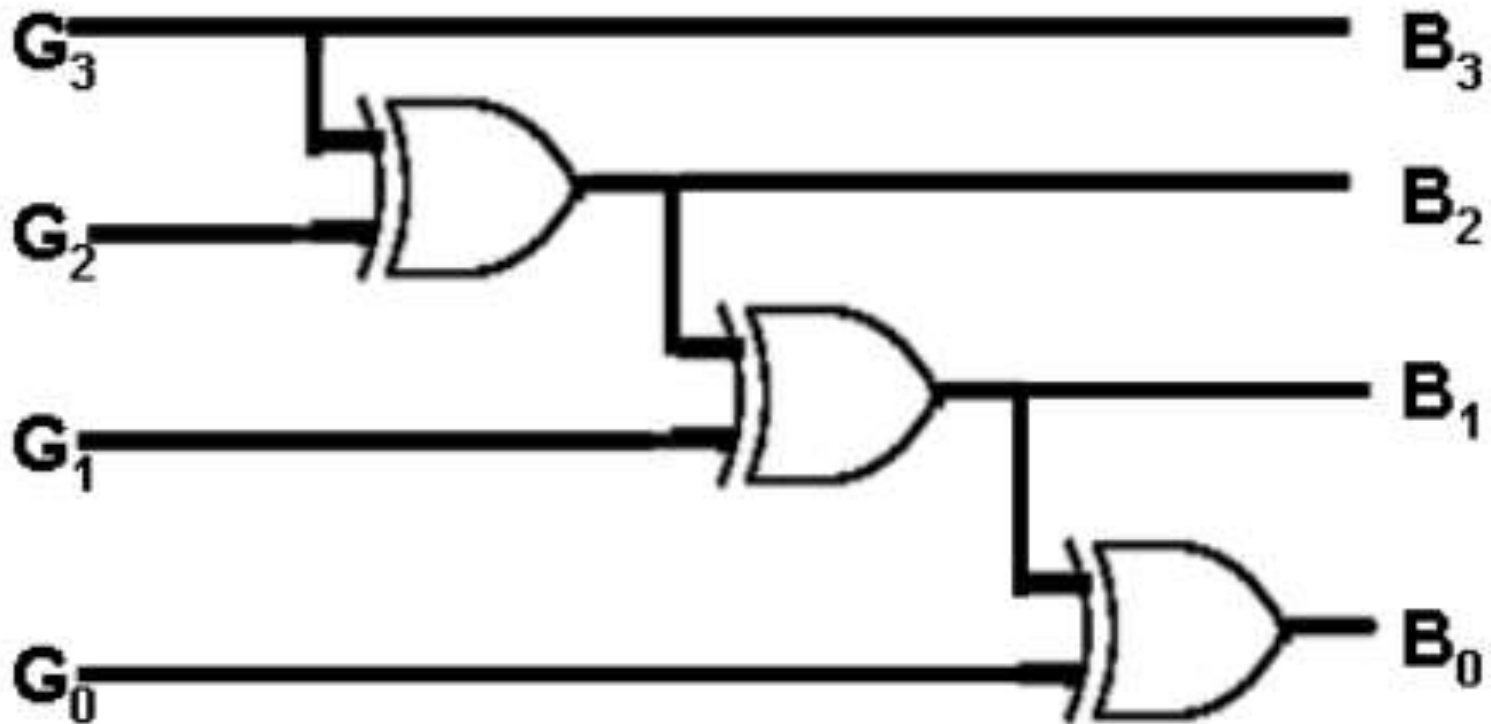


Gray to binary conversion

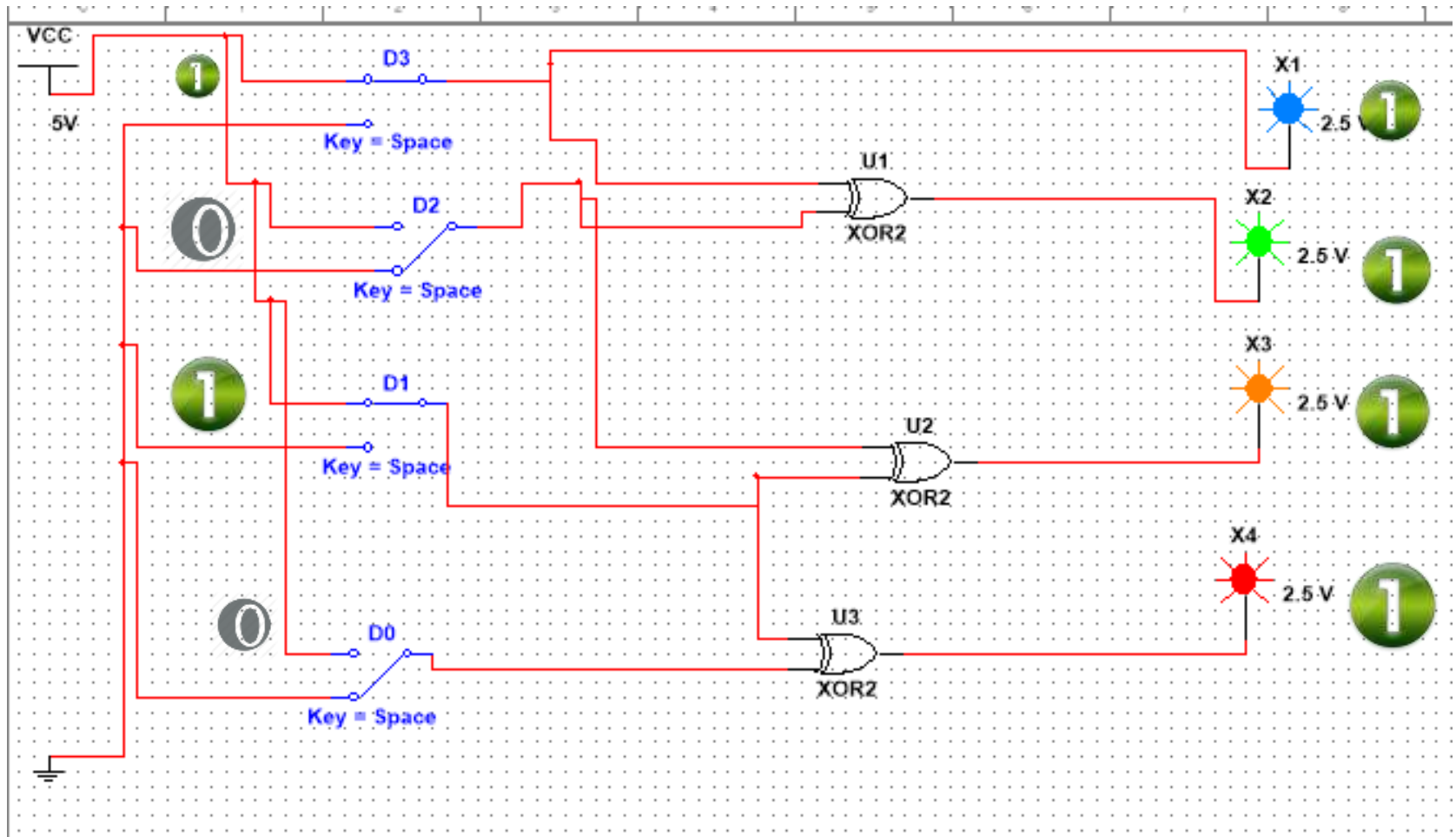
- Taking a random input string and converting it.



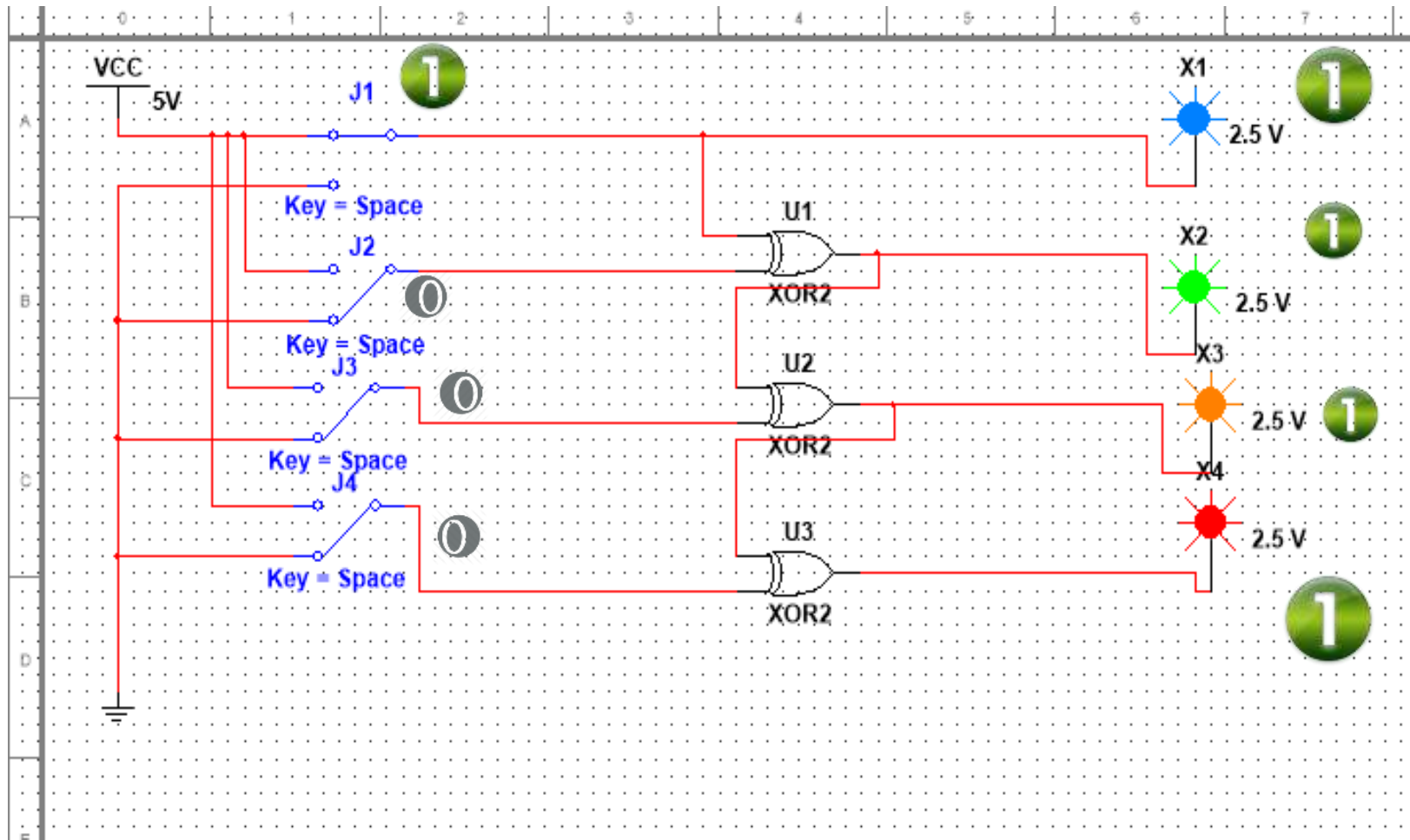
Here is block diagram of how it builds?



SIMULATION(BINARY-GRAY)



SIMULATION(GRAY-BINARY)



THANK YOU!!