

# Birla Institute of Technology and Science, Pilani, Goa Campus

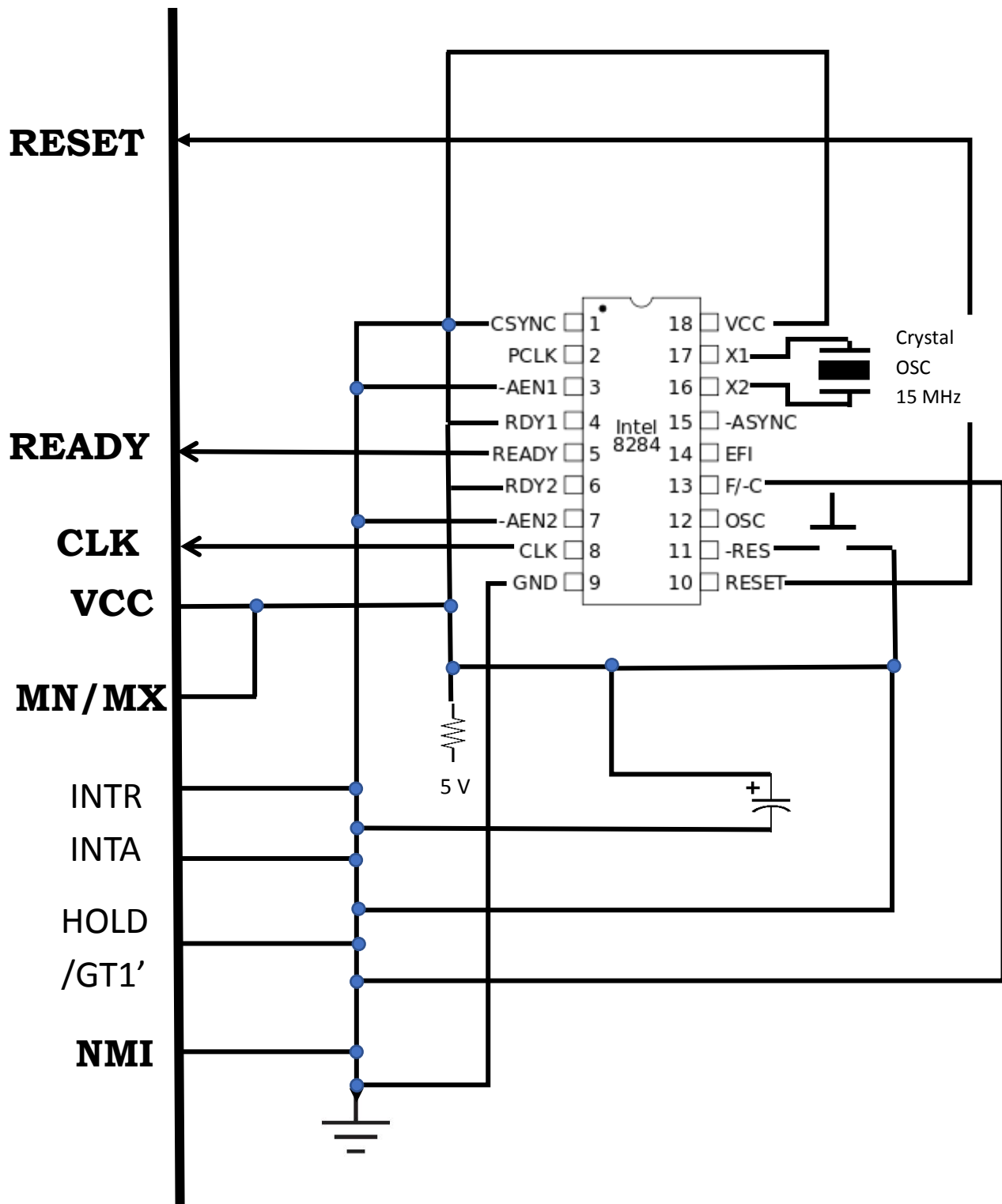


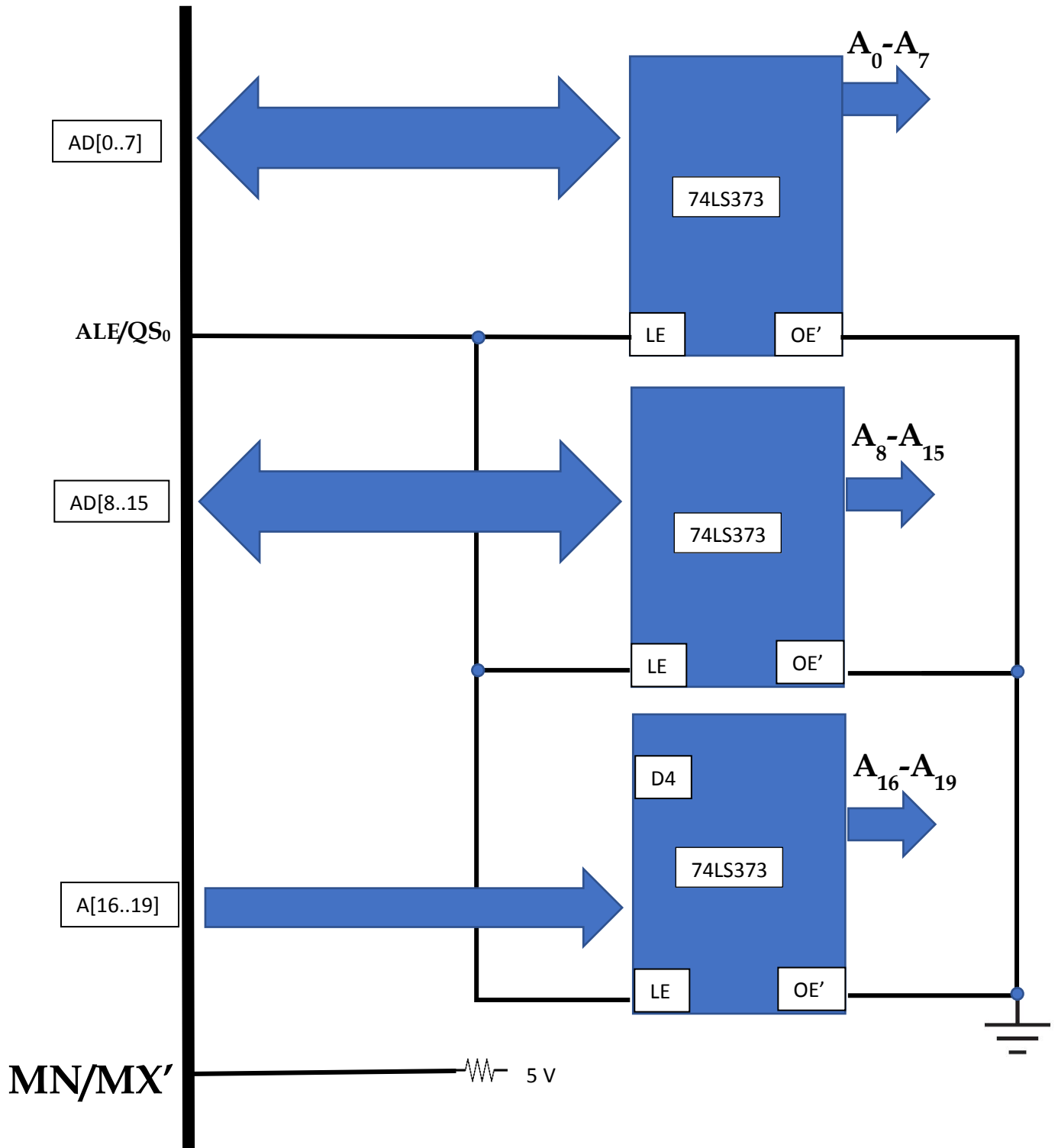
## Hardware Components

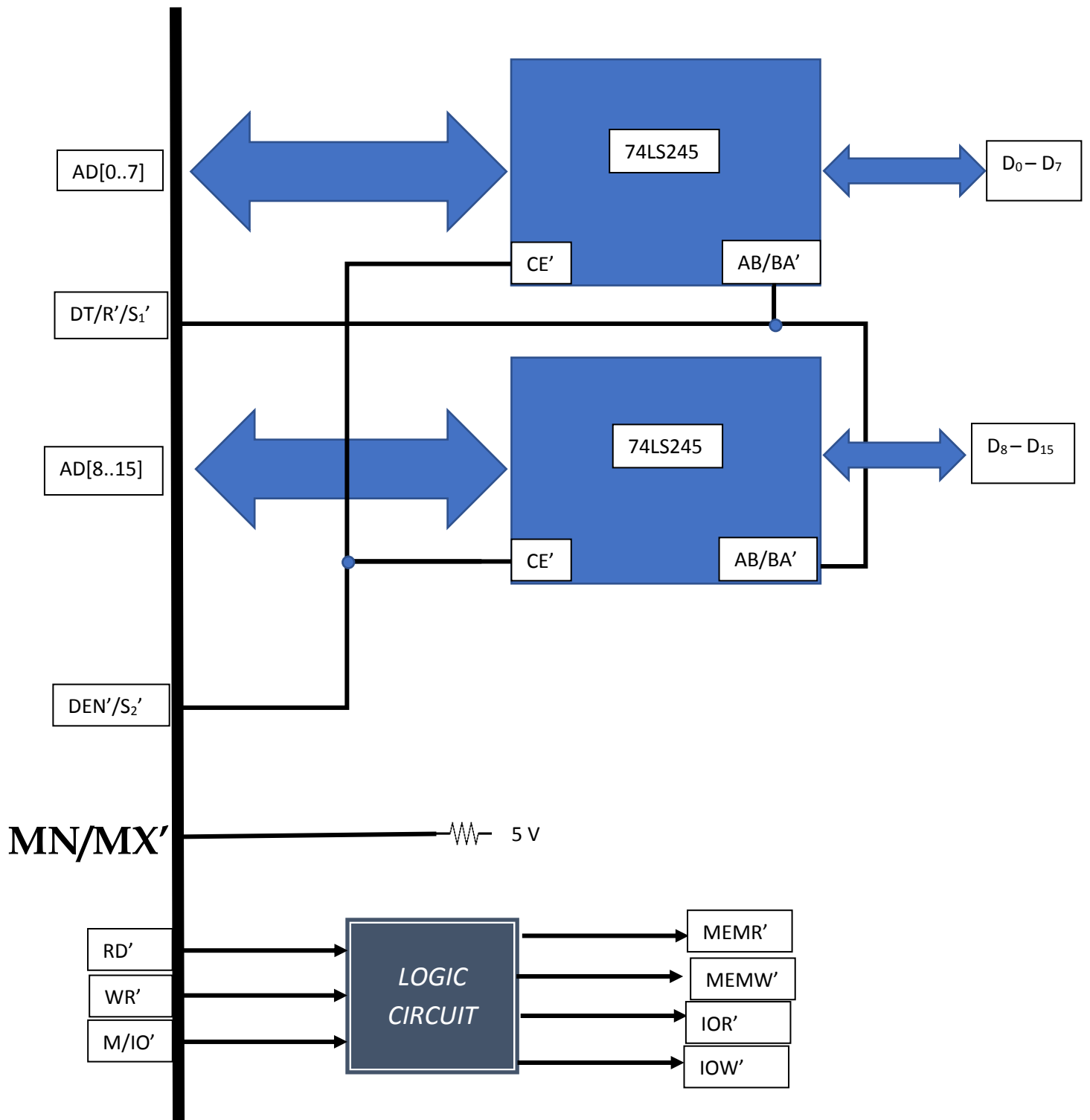
---

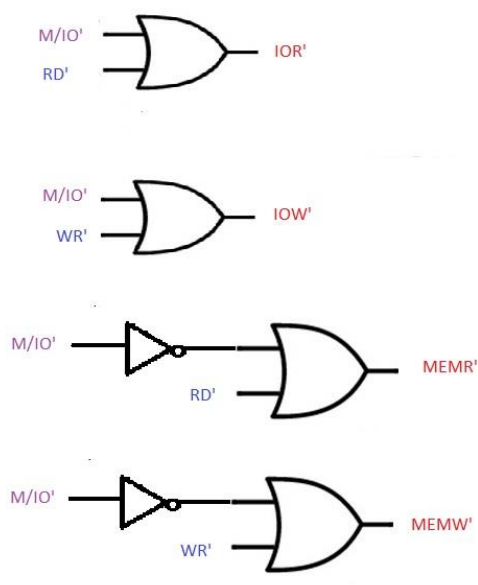
SMART LIGHTING SYSTEM

2018A7PS0112G Bhavyam Kamal  
2018A7PS0686G Pranav Pateriya  
2018A7PS0173G Nitish Silswal  
2018A7PS0117G Aditya Mishra  
2018A7PS0535G Saubhagya Shukla

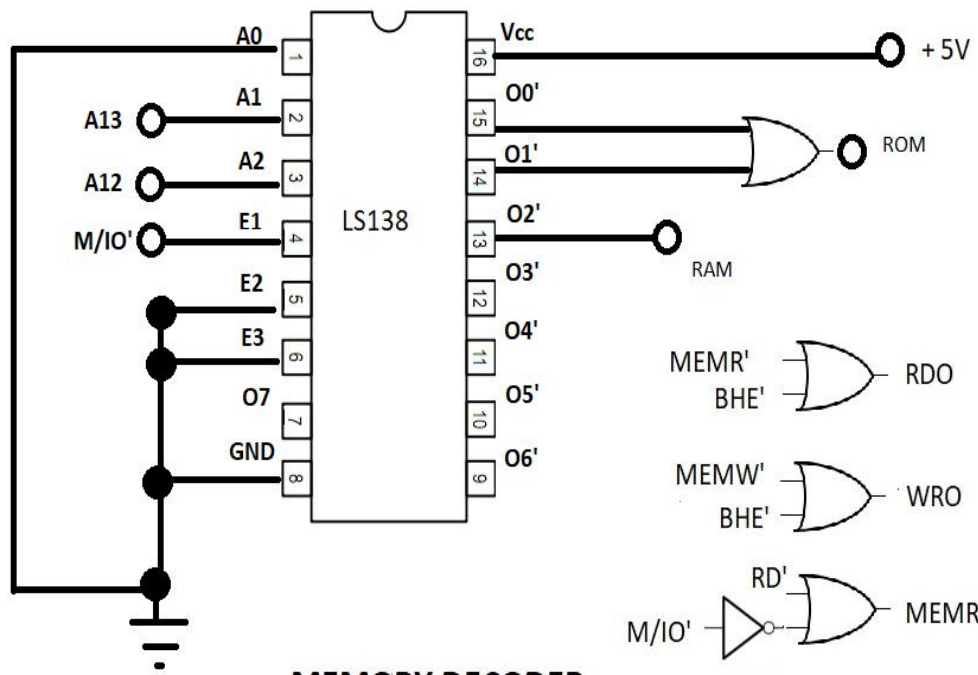




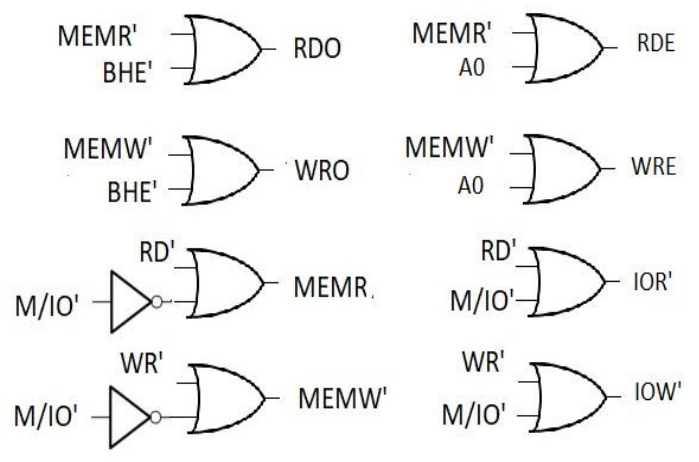


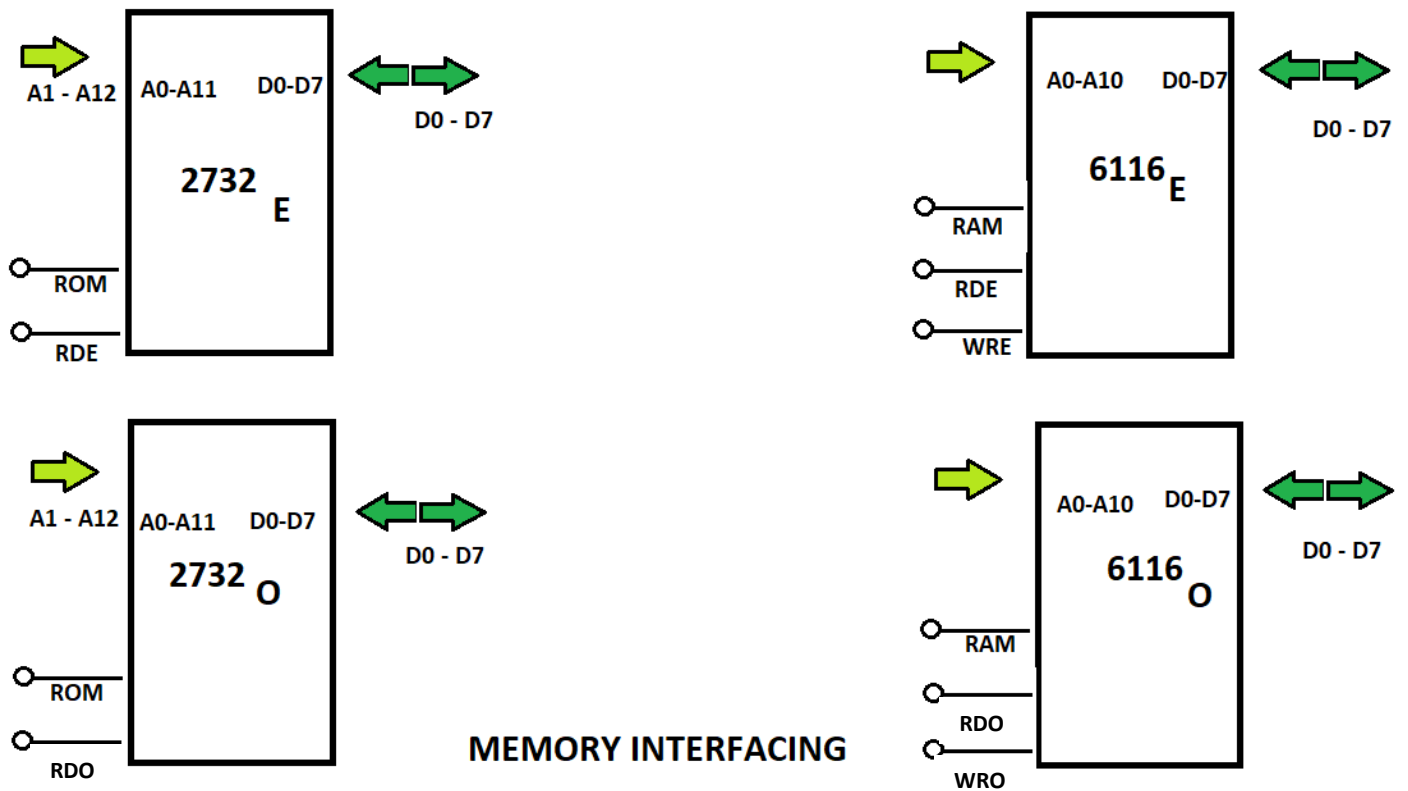


M/IO'	RD'	WR'	BUS CYCLE
1	0	1	MEMR'
1	1	0	MEMW'
0	0	1	IOR'
0	1	0	IOW'

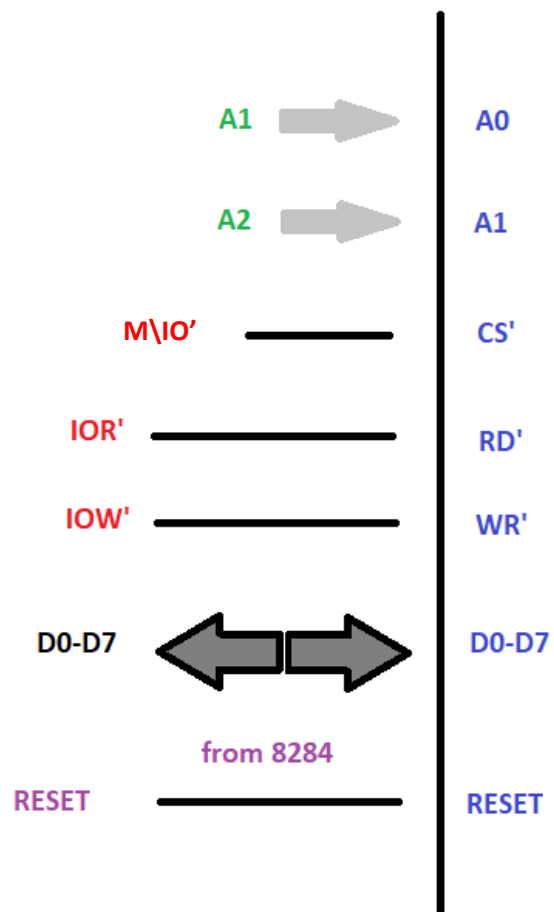


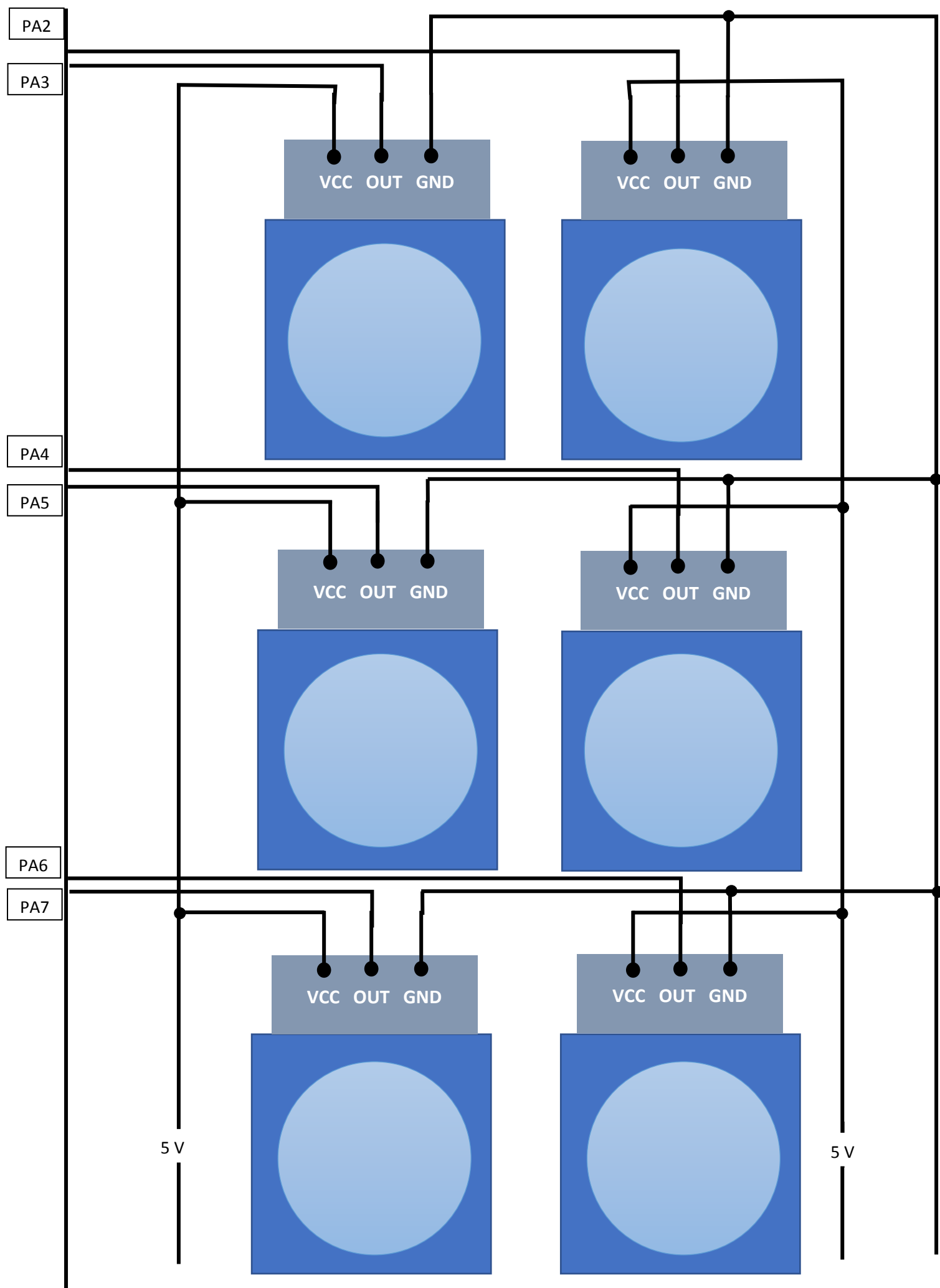
MEMORY DECODER

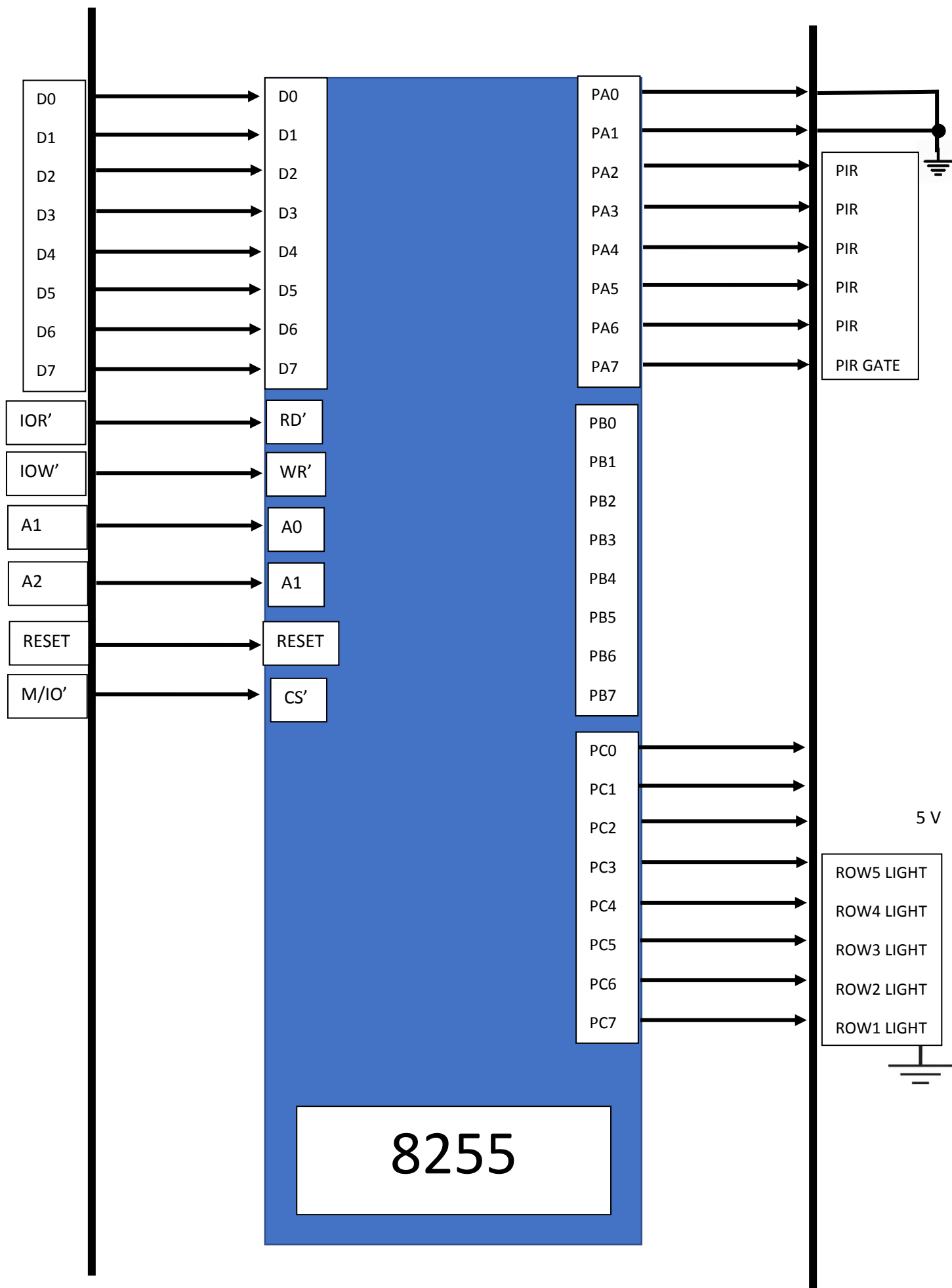




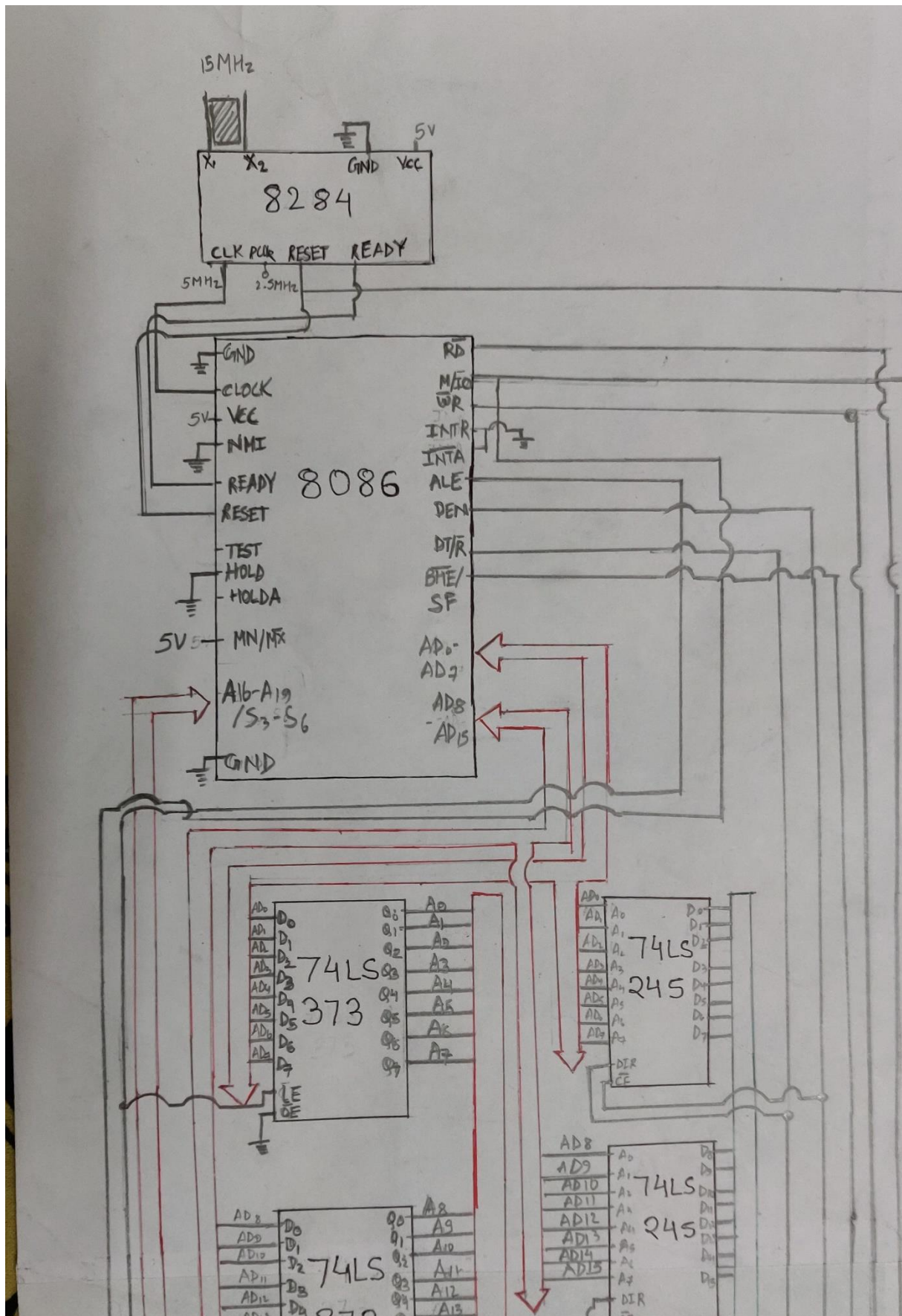
### 8255 Interface to the processor

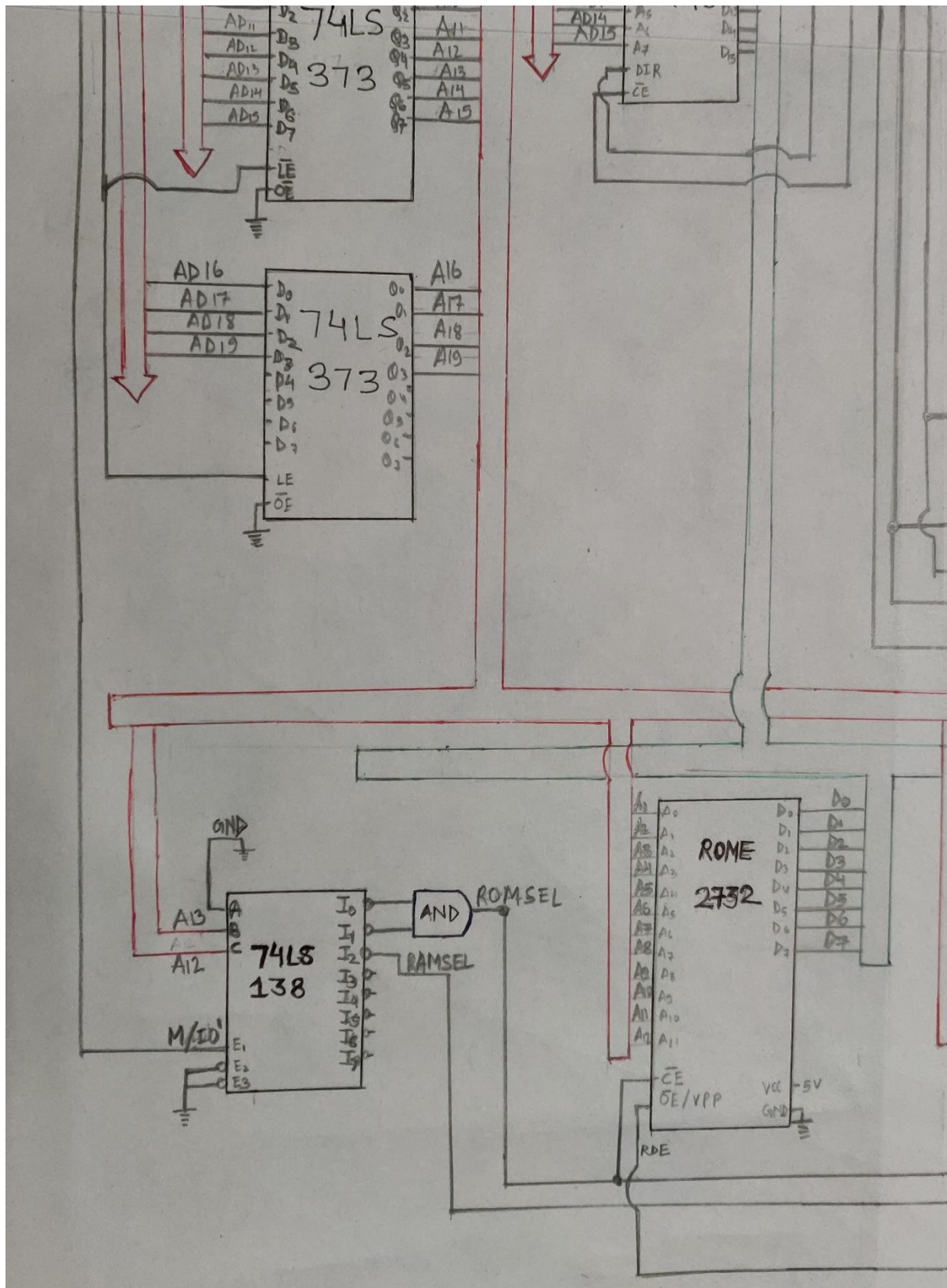




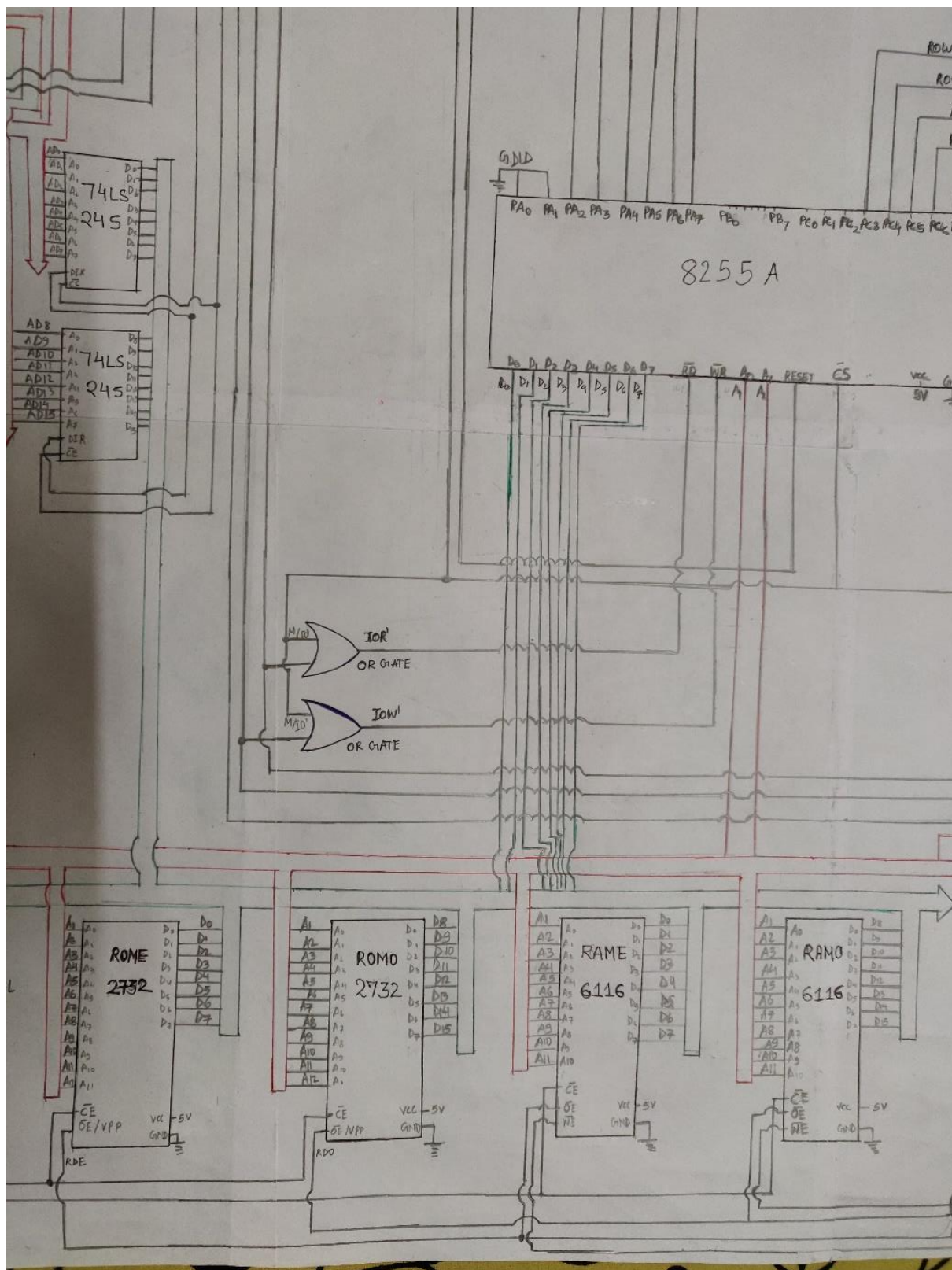


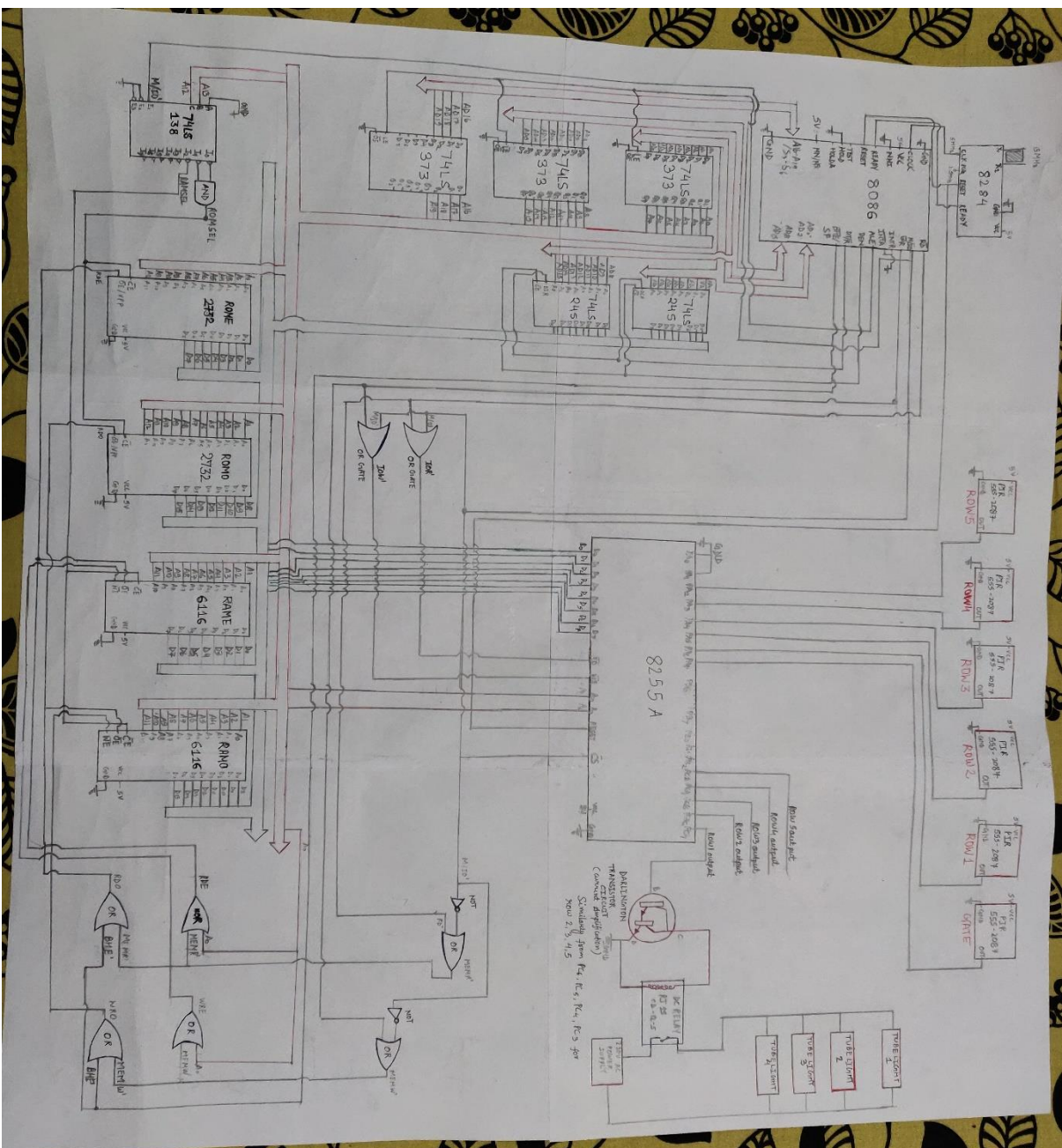




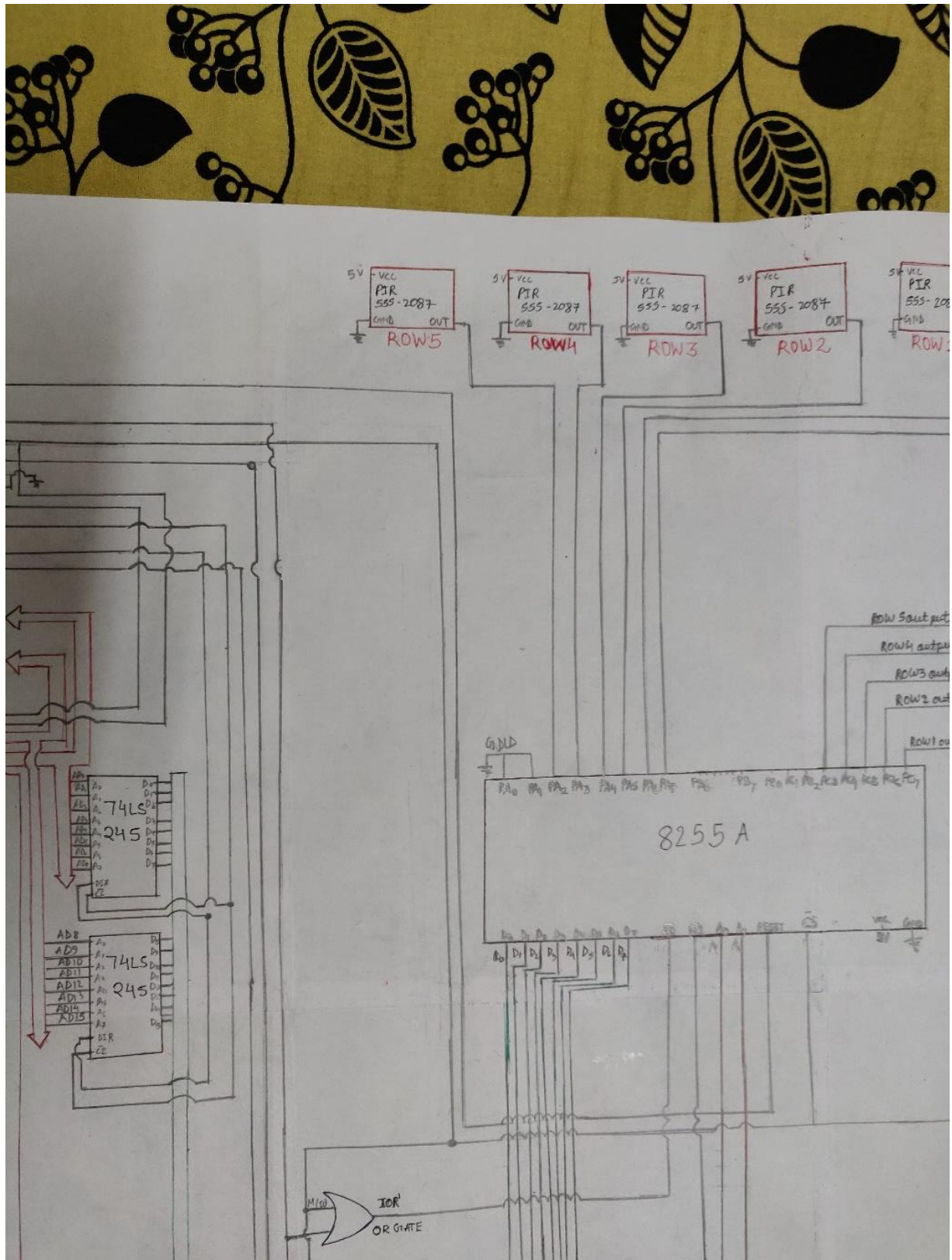


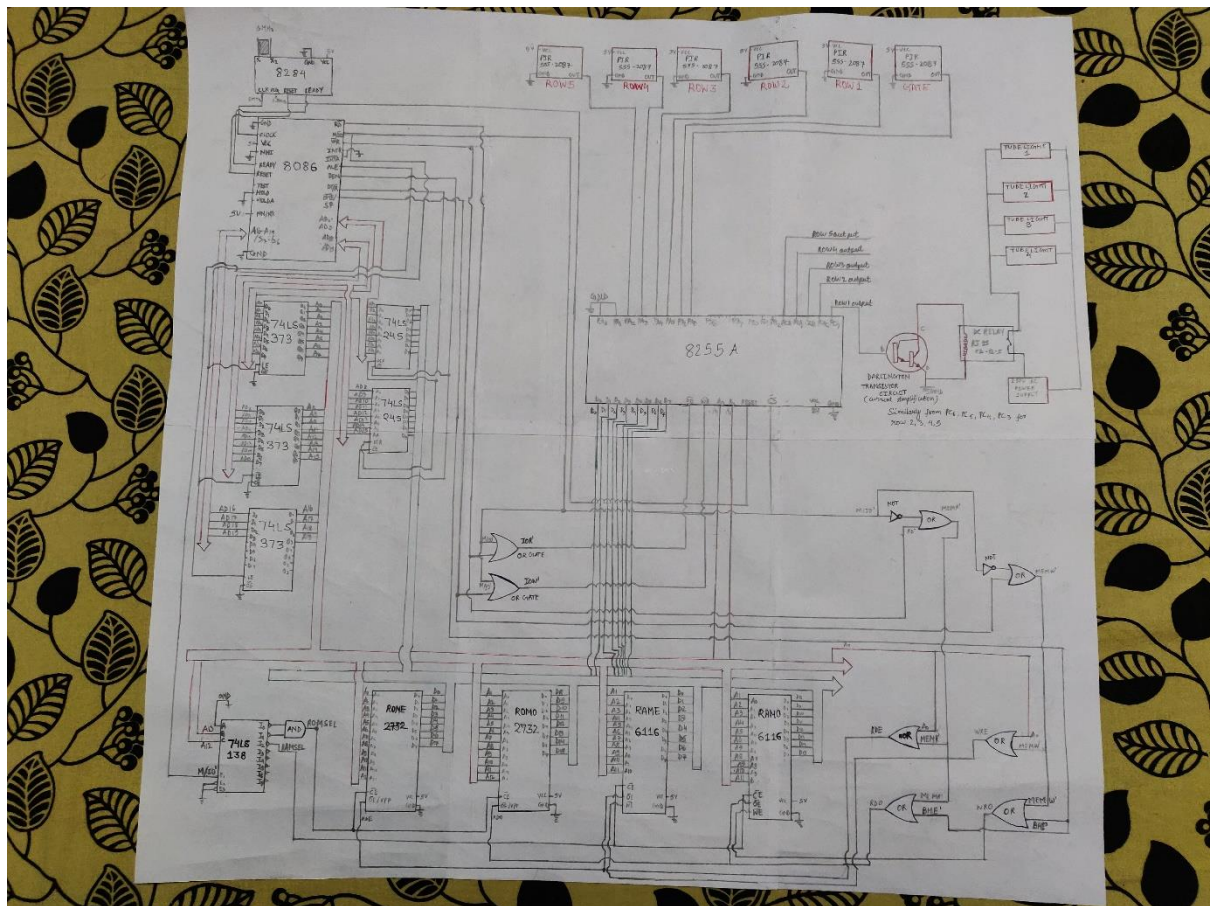




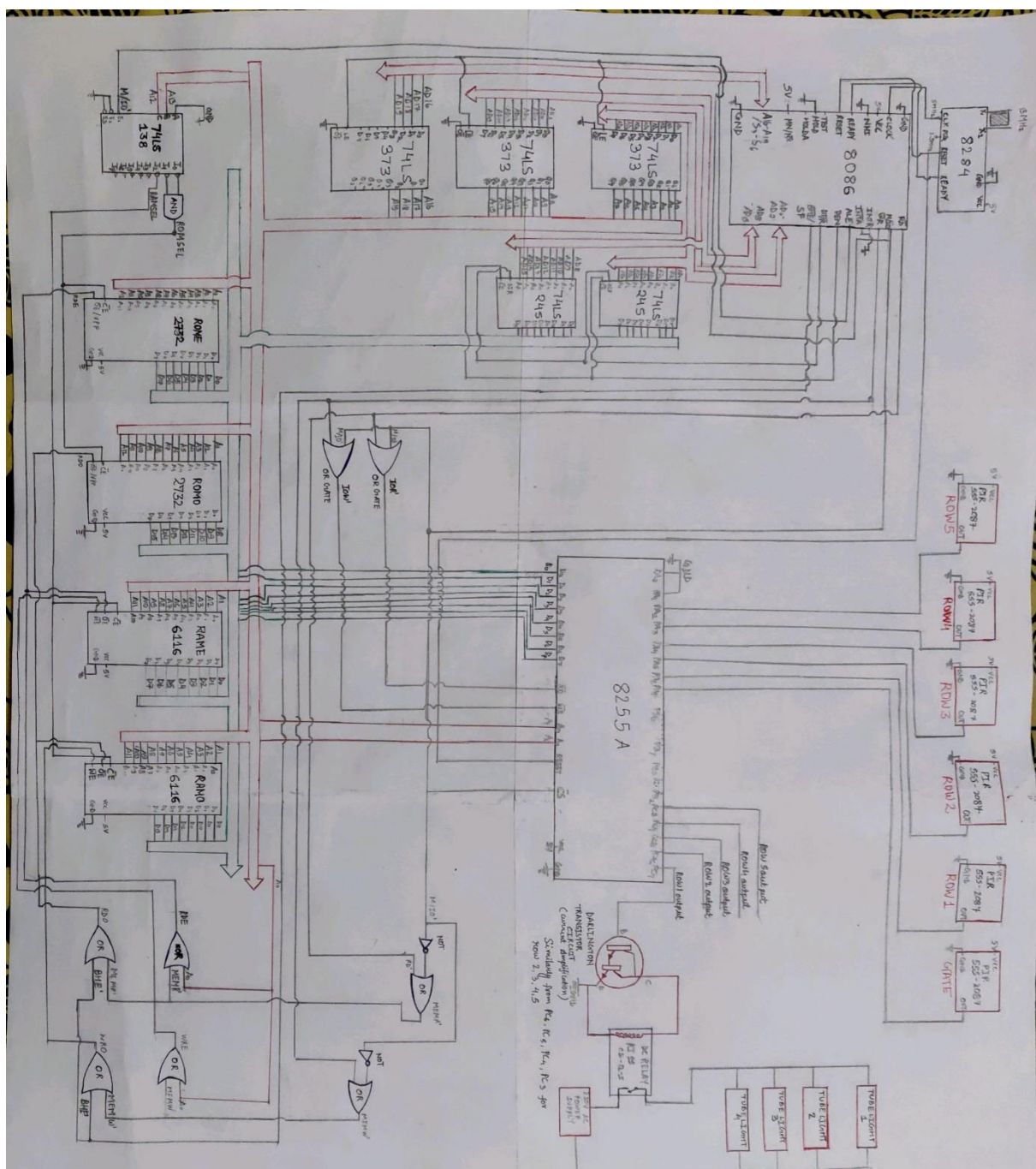


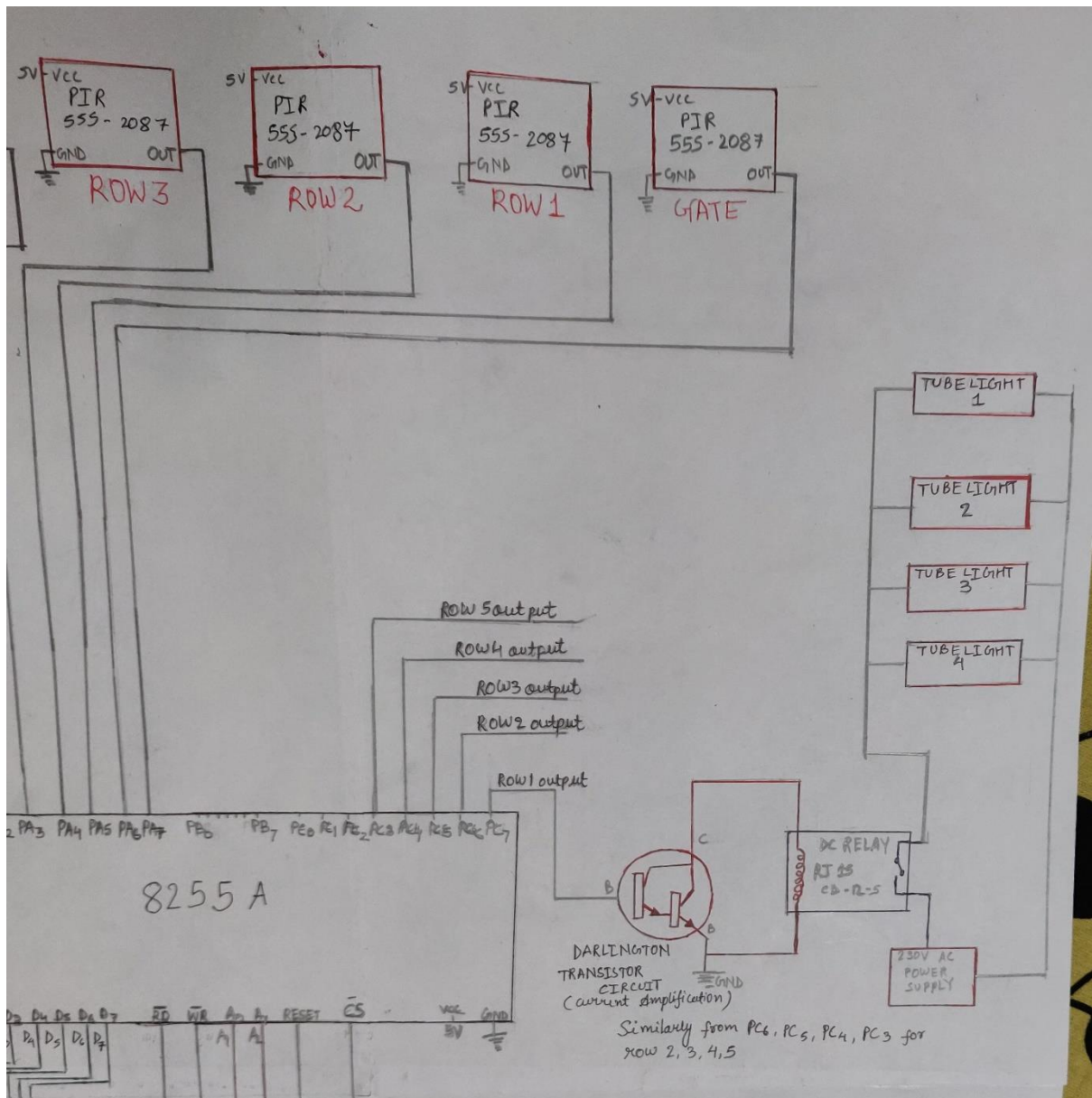












There is also a walkthrough video on YouTube made by us that explains the Code, it's logic and it's working

It can be found at:

<https://youtu.be/lshg31mhzko>