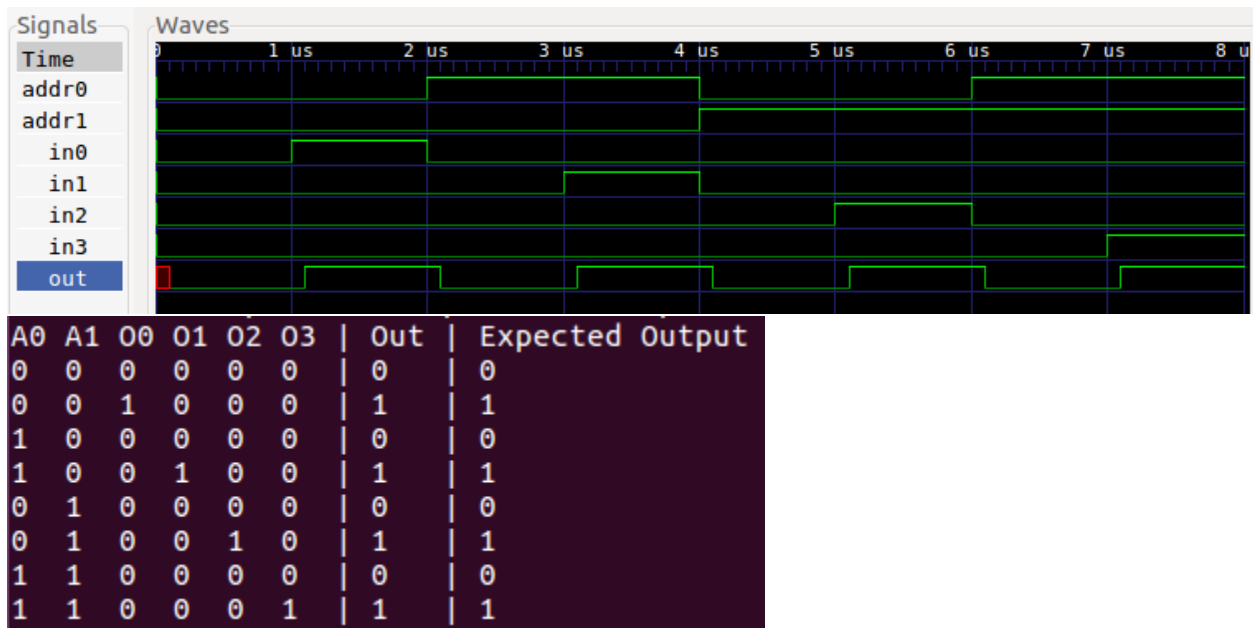


Decoder:



En	A0	A1	00	01	02	03	Expected Output
0	0	0	0	0	0	0	All false
0	1	0	0	0	0	0	All false
0	0	1	0	0	0	0	All false
0	1	1	0	0	0	0	All false
1	0	0	1	0	0	0	00 Only
1	1	0	0	1	0	0	01 Only
1	0	1	0	0	1	0	02 Only
1	1	1	0	0	0	1	03 Only

Multiplexer:



Adder:

