ASSIGNMENT 5

1 TO 2 LINE DECODER

The Combinational Analysis table shows:

a	b	x	y
0	0	1	0
0	1	1	0
1	0	1	0
1	1	0	1

3 TO 8 LINE DECODER

A is enable in the truth table
Thus no low value(0) is seen for A=0

a	b	c	d	x	y	z	u	v	w	s	t
0	0	0	0	1	1	1	1	1	1	1	1
0	0	0	1	1	1	1	1	1	1	1	1
0	0	1	0	1	1	1	1	1	1	1	1
0	0	1	1	1	1	1	1	1	1	1	1
0	1	0	0	1	1	1	1	1	1	1	1
0	1	0	1	1	1	1	1	1	1	1	1
0	1	1	0	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1
1	0	0	0	0	1	1	1	1	1	1	1
1	0	0	1	1	1	1	1	0	1	1	1
1	0	1	0	1	1	0	1	1	1	1	1
1	0	1	1	1	1	1	1	1	0	1	1
1	1	0	0	1	0	1	1	1	1	1	1
1	1	0	1	1	1	1	1	1	0	1	1
1	1	1	0	1	1	1	0	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	0
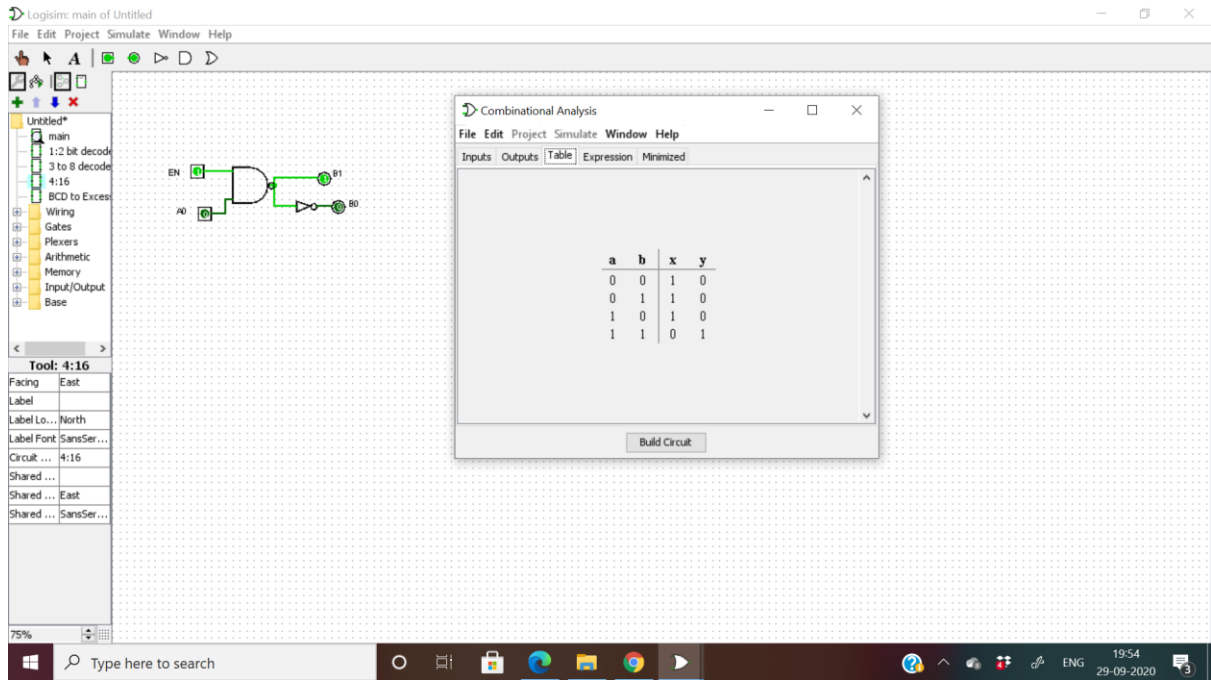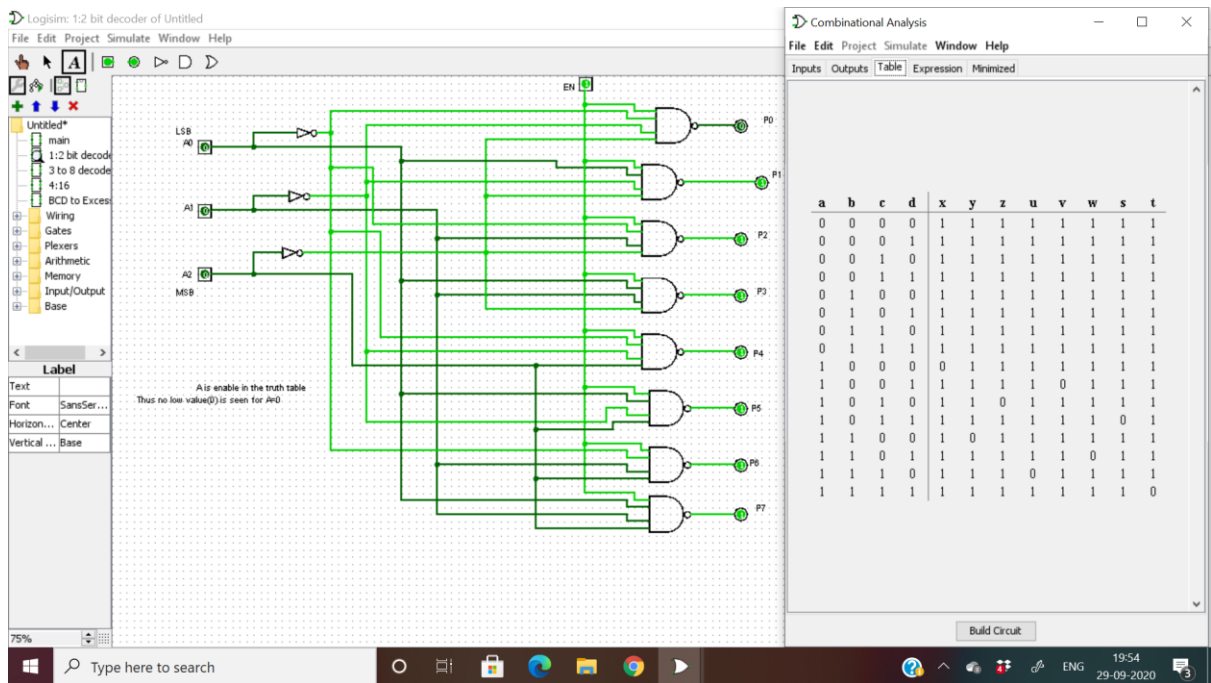
4 TO 16 LINE DECODER
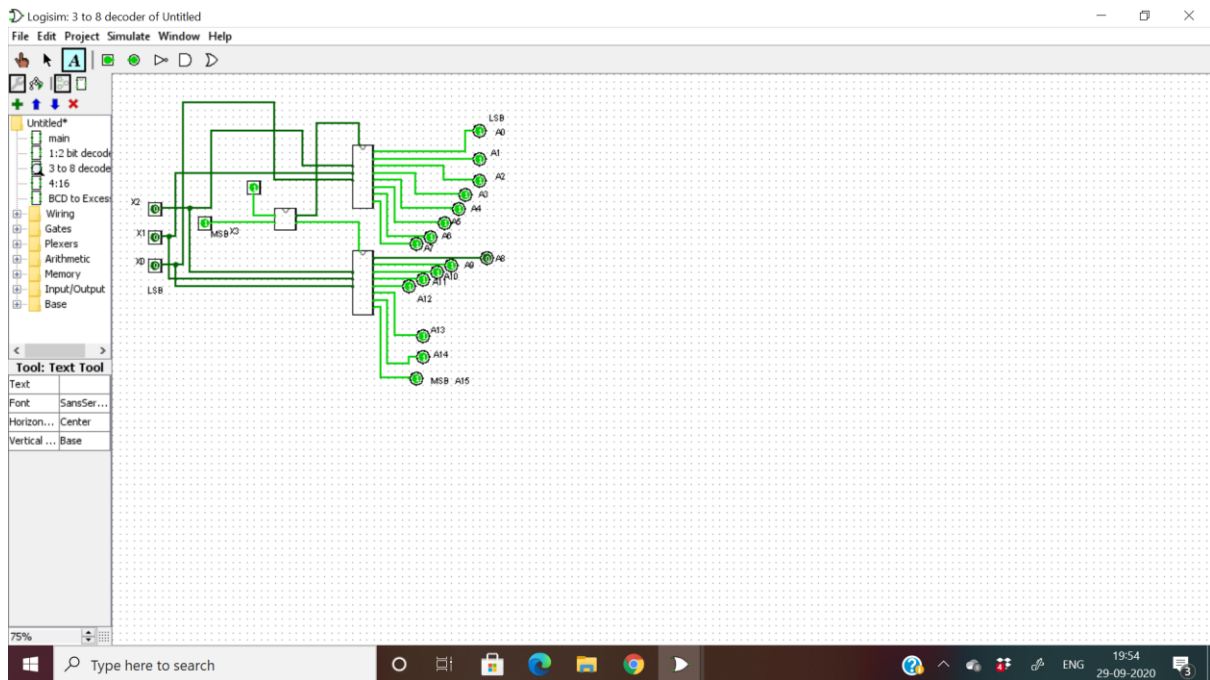
BCD TO EXCESS-3 CODE CONVERTER