

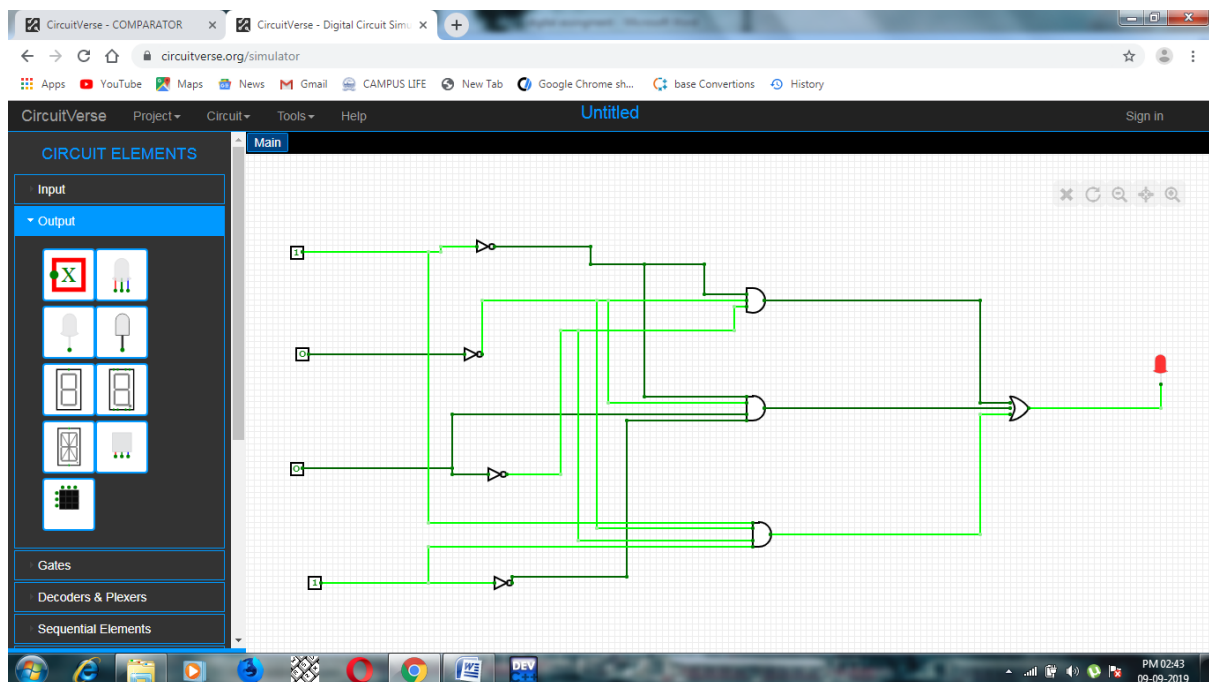
A	B	C	D	F
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	0
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	0
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0
1	1	1	1	0

$$F = + A'B'C'D' + A'B'C'D + A'B'CD' + AB'C'D$$

Simplify :

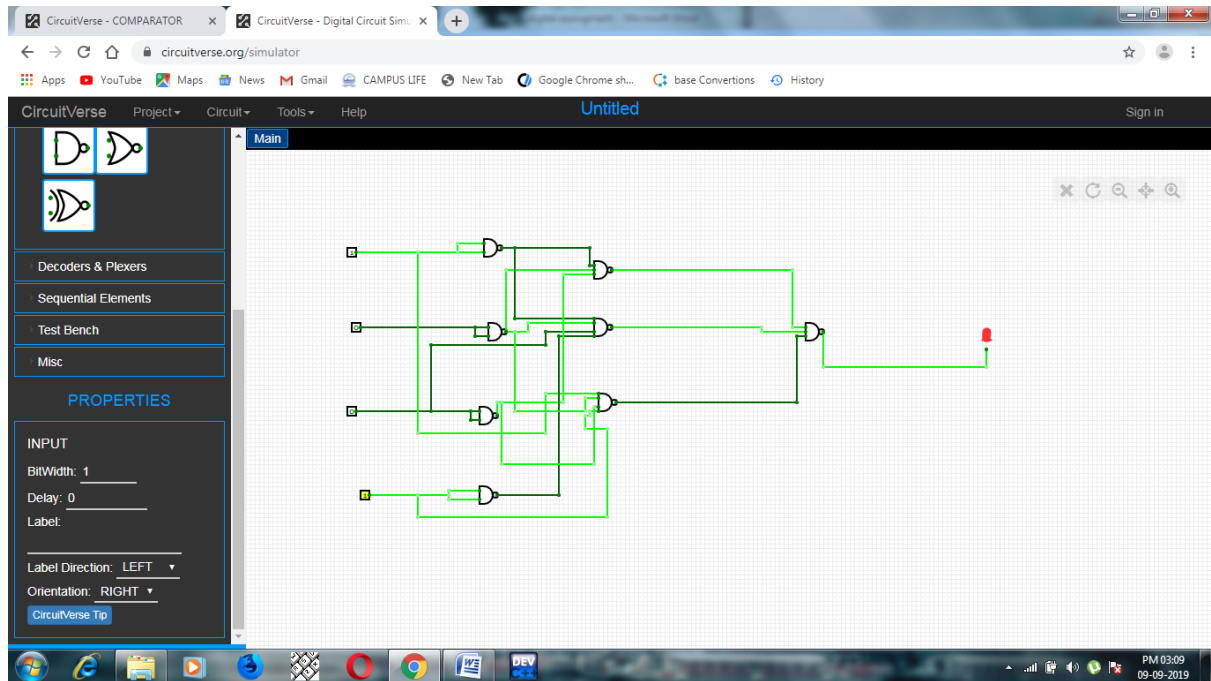
$$F = A'B'C' + A'B'CD' + AB'C'D$$

Combinational circuit



Using NAND gate:

Positive case:



Negative case:

