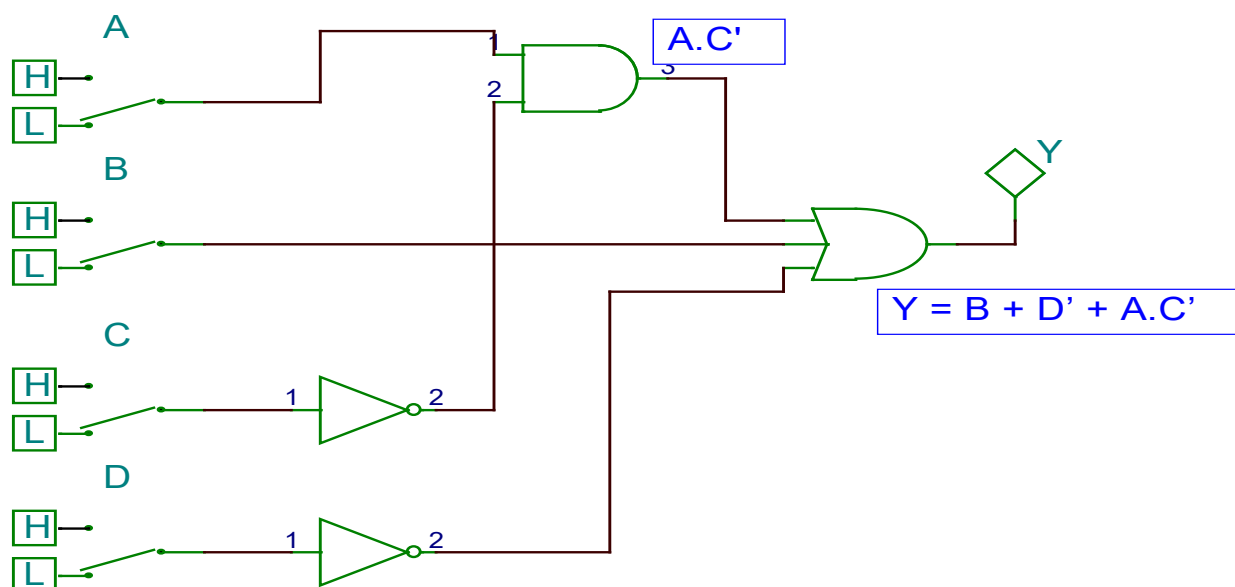


AB CD	00	01	11	10
00	1	1	1	1
01		1	1	1
11		1	1	
10	1	1	1	1

$$Y = B + D' + A.C'$$

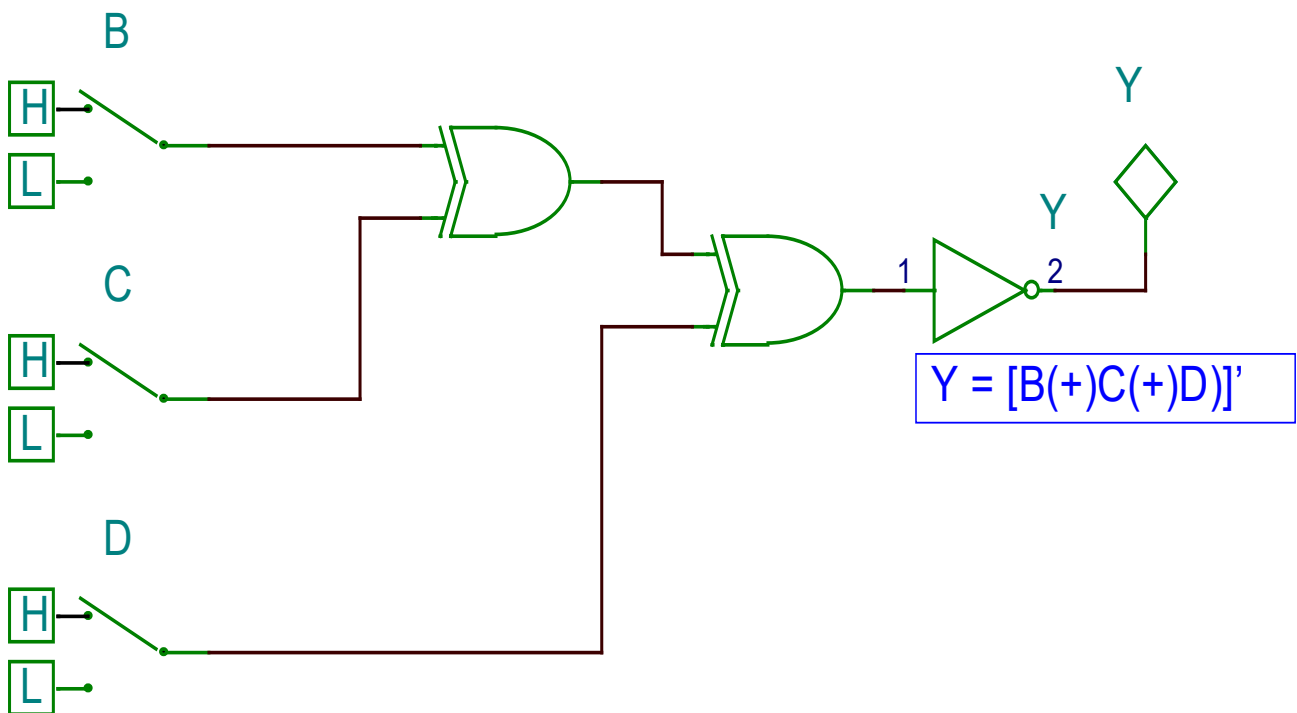


AB CD	00	01	11	10
00	1			1
01		1	1	
11	1			1
10		1	1	

$$Y = \textcolor{green}{BCD'} + \textcolor{red}{B'CD} + \textcolor{green}{BC'D} + \textcolor{red}{B'C'D'} = B(CD' + C'D) + B'(C'D' + CD)$$

$$Y = B(C(+)D) + B'(C(+)D)' = BW + B'W' = (B(+)W)' =$$

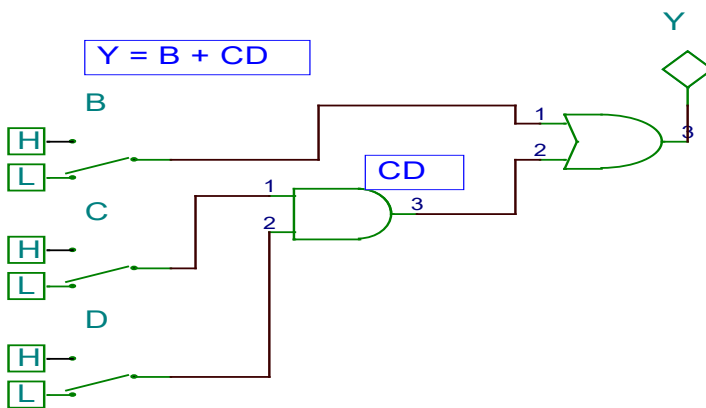
$$W \quad W' \quad Y = [B(+)C(+)D)]'$$



$$Y1 = (B'D' + B'C')'$$

$$Y1' = B'D' + B'C' \rightarrow Y1 = B + CD$$

AB CD	00	01	11	10
00	0	1	1	0
01	0	1	1	0
11	1	1	1	1
10	0	1	1	0



$$Y2 = A(+)B + A(+)D + AB + BD + BC$$

$$W(+)X = W'X + WX'$$

AB CD	00	01	11	10
00	0	1	1	1
01	1	1	1	1
11	1	1	1	1
10	0	1	1	1

$$Y2 = A'B + AB' + A'D + AD' + AB + BD + BC = A + B + D$$

$$Y2' = A'B'D' \rightarrow Y = (A'B'D')' = A+B+D$$

A

H

L

B

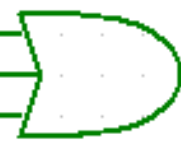
H

L

D

H

L



$$Y = A + B + D$$

