

CE252 - Digital Electronics

Internal Practical

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY &
RESEARCH

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DE Practical Exam
20DCS103

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* Solve the expression using k-map.

$$F(A, B, C, D) = \sum (0, 1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15)$$

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

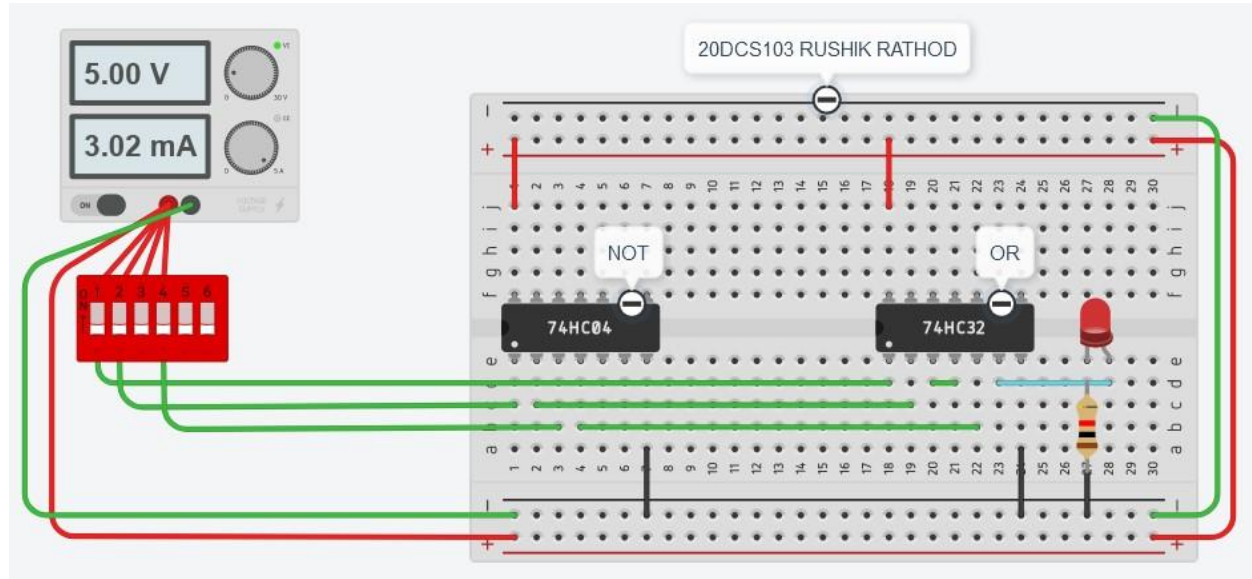
$$\therefore F(A, B, C, D) = B' + D' + A$$

$$= A + B' + D'$$

* Truth table for verification :-

A	B	D	B'	D'	$A + B' + D'$
0	0	0	1	1	1
0	0	1	1	0	1
0	1	0	0	1	1
0	1	1	0	0	0
1	0	0	1	1	1
1	0	1	1	0	1
1	1	0	0	1	1
1	1	1	0	0	1

❖ Tinkercad Implementation:



Thank you...