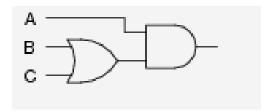
Examples

From Logic Circuit to Expression



First, identify the gates: OR gate, AND gate

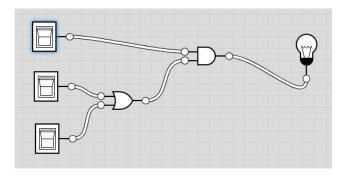
Logic Expression=(A).(B+C)

Truth Table

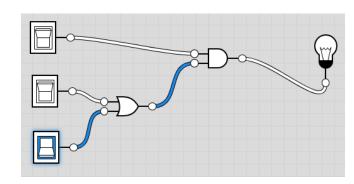
A	В	С	Output
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	
1	0	0	
1	0	1	1
1	1	0	
1	1	1	

Screenshots from Logicly (Give all the combinations you have identified as in the above truth table and check the output of the circuit and fill in the table)

ABC=000, the output is 0

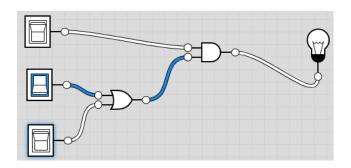


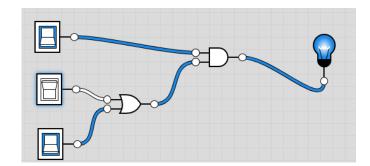
ABC=010, the output is 0



ABC=001, the output is 0

ABC=101, the output is 1

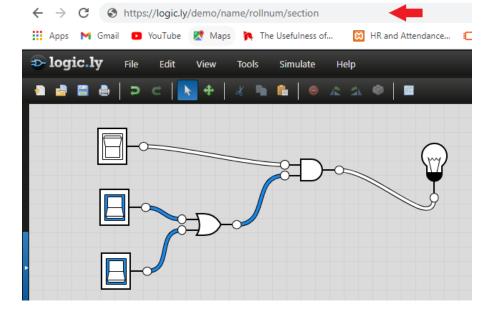




Do this to complete the whole truth table

Make sure that you take the complete screenshot that shows your name roll num, section, like the one

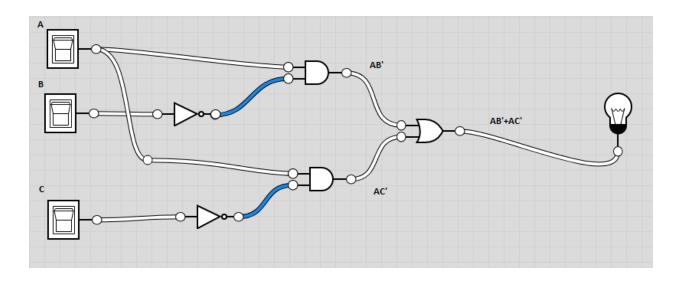
below:



Expression to Logic Circuit

F=AB'+ AC'

Circuit Diagram (from logicly)



(These labels are written with the help of Paint, you may also edit your images like this for better understanding of inputs & outputs)

Test the circuit for all the possibilities of inputs and fill in the table as shown below.

Truth Table

A	В	С	Output
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0