IDE Assignment

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Abstract—state any one Absorpion law of boolean algebra and verify it using truth table

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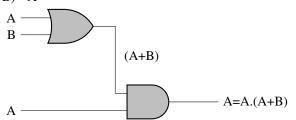
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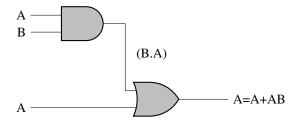
I. COMPONENTS

Component	Value	Count
Arduino	UNO	1
Seven Segment display	1	
Resistor	220 Ohm	1
Jumper wires	-	as required

II. ABSORPTION LAW

Absorptive Law – This law allows for the reduction of a difficult statement to a simpler one by absorbing phrases that are similar in structure. A + (A.B) = (A.1) + (A.B) = A(1 + B) = A (OR Absorption Law) A(A + B) = (A + 0) A(A + B) = A + (0.B) = A (AND Absorption Law) A(A + B) = A





Truth Table

A.(A+B) = A							
A	B	A + B	A.(A+B)				
0	0	0	0				
0	1	1	0				
1	0	1	1				
1	1	1	1				

III. PROCEDURE:

- 1) First make the 2,3 digital pins of arduino as input pins and 4,5 pins as output pins.
- 2)Write the given logic in code and upload in to the arduino.
- 3)Connect the output pin i.e pin 13 of arduino to the one of the input of 7447 IC and the remaining input pins are connected to ground.
- 4)Connect the outputs of IC 7447 to the corresponding pins of sevensegment display.
- 5)The out put will be displayed in display either 1 or 0 corresponds to truth table.
 - 1) svn co https://github.com/Ngavvala/fwc
 - 2) cd ide_assignment
 - 3) pio run
 - 4) pio run -t upload

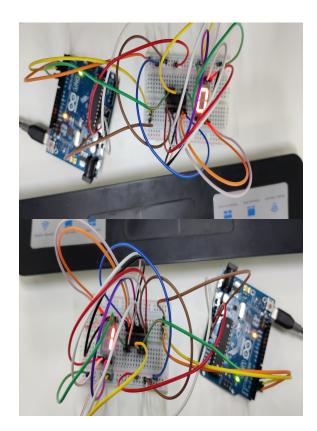


Fig. 1. Result