

Assembly Assignment

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

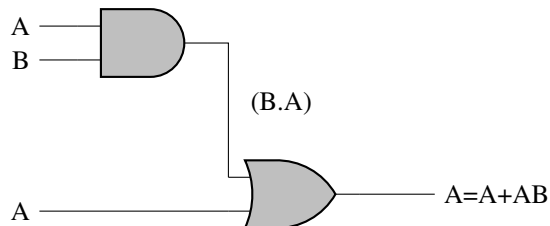
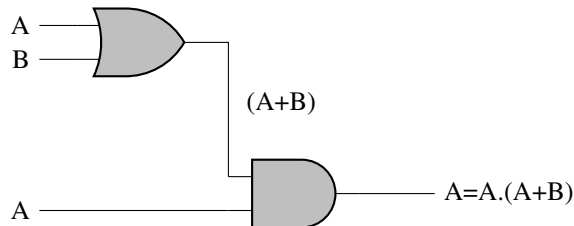
CONTENTS

I. COMPONENTS

Component	Value	Count
Arduino	UNO	1

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	0	0
1	0	0	1
1	1	1	1

$$A.(A + B) = A$$

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 2,3,4,5 pins as output pins.
- 2) Write the given logic in code and upload in to the arduino.
- 5) The out put will be displayed in display either 1 or 0 corresponds to truth table.

- 1) `svn co https://github.com/NareshGavvala/fwc`
- 2) `cd ide_assignment`
- 3) `pio run`
- 4) `pio run -t upload`