BOOLEAN LOGIC THROUGH 7447

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1 CIRCUIT

For the logic circuit shown in Fig.P2.7, the simplified Boolean expression for the output is....

2 components

3 hardware

4 software

ABSTARCT —This manual shows how to use the 7447 BCD- Seven Segment Display decoder to implement Boolean logic.

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GIVEN CIRCUIT DIAGRAM

Problem 2.1. Make connections between the seven segment display and the 7447 IC using table 2

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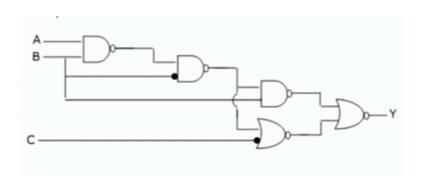


Figure 1: circuit

component	value	quantity		
Resistor	220	1		
Arduino	UNO	1		
Seven segment	-	1		
Decoder	7447	1		
jumperwires	-	1		
breadboard	-	1		

Table 1: First table

HARDWARE

7447	a	b	c	d	e	f	g
display	a	b	c	d	e	f	g

Table 2: second table

...

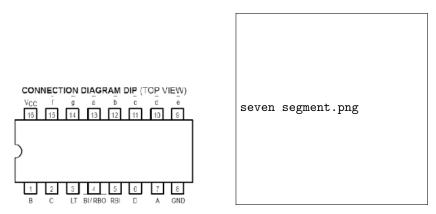


Figure 2: 7447 pin diagram

Figure 3: seven segment pin diagram

X,Y,Z taken as inputs,connect arduino pin 2 to A in 7447,connect remaining B,C,D pins of 7447 to ground Connect VCC (5 pin of arduino) and ground to the circuit

Execute the code provided in the below link

 $https://github.com/revsriraj/FWC/ide\ assignment.ino$