

P.O.S Canonical Form For Truth Table

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Contents

Abstract

This manual shows how to use Arduino with 7447 and sevensegment dispaly to represent pos canonical form for

function 'F' in truth table.

	colon i in cracii casic.							
Y	Z	F						
0	0	1						
0	1	0						
1	0	0						
1	1	1						
0	0	1						
0	1	0						
1	0	0						
1	1	1						
	0	0 0						

n.png									
		X	Y	Z	$\Big]_{T_{\alpha}}$	Table 2.1			
	Input	0	1	0	la	Table 2.1			
	egment	a	b	С	, (d	е	f	g
74	47	a'	b'		, (l'	e'	f'	g g'
Table 2.2									
	7447		A	В	С	I	O		
	Arduir	10	2	-	-		-		

table 2.3

Software

execute the following program after downloading.

https://github.com/anirudhkalyan/fwc.git

Components 1

Components	Value	Quantity
Resistor	220Ohm	1
Arduino	UNO	1
Seven segment Display		1
7447	_	1
Jumper wires	M-M	20
Breadboard		1

X,Y,Z are the inputs that we are assigning manually in bread board and by deriving canonical form for F,

$$F = (X+Y+!Z)*(X+!Y+Z)*(!X+Y+!Z)*(!X+!Y+Z)$$
(1)

2 Hardware

Problem 2.1. Now make the connections as per Table 2.1,2.2 and 2.3

conclusion

open in Geany by using github link provided above then compile and execute

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