

# P.O.S Canonical Form For Truth Table

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h.png

### 2 Hardware

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

1  $\begin{bmatrix} X & Y & Z \\ Input & 0 & 1 & 0 \end{bmatrix}$  Table 2.1

	Input	U	1	U				
sevens	segment	a	b	c	d	e	f	g
7447		a'	b'	$\mathbf{c}'$	ď'	e'	f'	g'
Table 2.2								

Table 2.2						
7447	Α	В	С	D		
Arduino	2	-	-	-		

table 2.3

#### Abstract

This manual shows how to use Arduino with 7447 and sevensegment dispaly to represent pos canonical form for function 'F' in truth table.

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	X	Y	Z	F				
	0	0	0	1				
	0	0	1	0				
	0	1	0	0				
	0	1	1	1				
	1	0	0	1				
	1	0	1	0				
	1	1	0	0				
	1	1	1	1				

#### 3 Software

execute the following program after downloading.

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

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)

### 4 conclusion

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

## 1 Components

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