P.O.S Canonical Form For Truth Table

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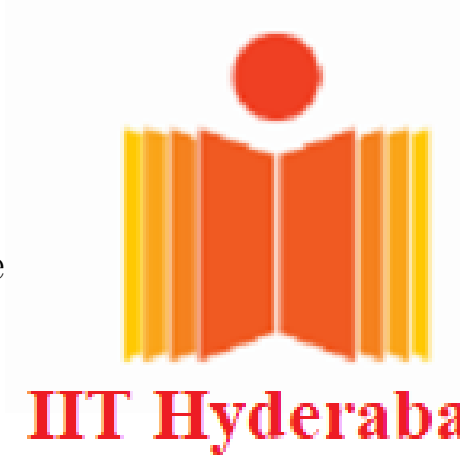

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Contents

Abstract

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

0.1 Truth table

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

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1 Components

Components	Value	Quantity
Resistor	220Ohm	1
Arduino	UNO	1
led	-	1
Jumper wires	M-M	6
Breadboard	-	1

2 Hardware

Problem 2.1. Now make the connections as per code link

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,

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

4 conclusion

open in text editor ,and type the code save change the target address in makefile and execute by typing make in terminal