

POS Expression for Paper 2014 Question 4

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Contents

1 Circuit diagram	1
2 Truth Table	1
3 Components	1
4 Hardware	1
5 Software	1

2 Truth Table

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

3 Components

Components	Value	Quantity
Arduino	UNO	1
LED	-	1

Abstract

This manual shows how to use Arduino with LED to represent POS expression for the function "F" shown in the below truth table.

4 Hardware

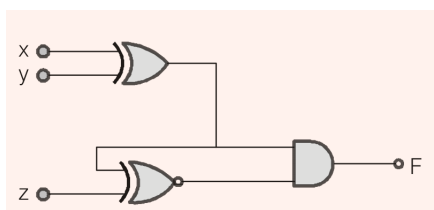
Make connections between the Arduino and supply through type c cable.

5 Software

Download the program and execute the following program using truth table

<https://github.com/imran111888/imran.git>

1 Circuit diagram



X, Y, Z are the inputs and LED is the output. Using boolean logic

$$F = (XY'Z) + (X'YZ) \quad (1)$$