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Assignmet 1 : XOR logic Implementation

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CONTENTS

1	Abstract	1
2	Components	1
3	Procedure	1

1 Abstract

In the ciruit X and Y are digital inputs, Z is digital output. The equivalent circuit is the logic implementation of XOR Gate.

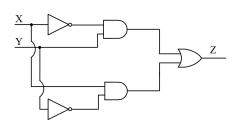


Fig. 1: Z=X!Y+!XY

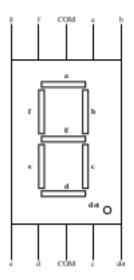


Fig. 2: Seven segment display

7447	ā	\bar{b}	ō	\bar{d}	ē	\bar{f}	Ē
Display	a	b	c	d	e	f	g

Fig. 3

2 Components

Component	Value	Quantity
Resistor	220 Ohm	1
Arduino	UNO	1
Seven Segment		1
Display		
Decoder	7447	1
Jumper Wires	M-M	20
Breadboard		1

TABLE I

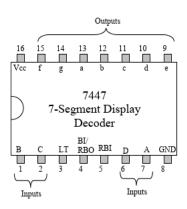


Fig. 4

3 Procedure

- 1. Connect the circuit as inputs to 0 and 1
- 2.Connect A pin of 7447 to D2.
- 3. Connect B,C and D pins of 7447 to GND.
- 4. Vary the D5 and D6 and observe the output accordingly in the seven segment display.

Observe the circuit by executing the link provided below.

https://github.com/sindhu023/FWC/ide