IDE ASSIGMNMENT

MATAM GOUTHAMI IITH - Future Wireless Communications (FWC)

Contents

1 QUESTION

Consider the minterm list form of a Boolean function ${\cal F}$ given below.

$$F(P,Q,R,S) = \Sigma(m(0,2,5,7,9,11) + d(3,8,10,12,14)).$$

Here,m denotes a minterm and d denotes a don't care term. The number of essential prime implicants of the Function F is

2 Components

Component	Quantity	Values
Arduino	1	UNO
JumperWires	2	M-M
Resistor	1	220
LED	1	1

3 K-Maps

 Y_1Y_0

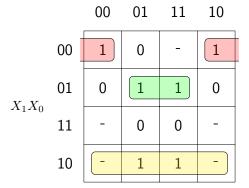


Fig. 1: led

5 Procedure and Output

- 1. Connect the circuit as per the above table.
- 2. connect the led to arduino

https://github.com/matamgouthami/fwc/blob/main/platformio/src/gou.cpp

4 Implementation

Arduino PIN	lcd
D2	OUTPUT
GND	GND

Connections

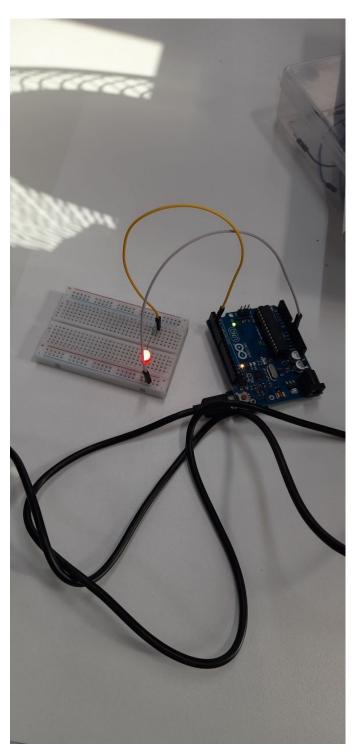


Fig. 2: Arduino connection with led