

IDE ASSIGNMENT

MASEEDU NITIN

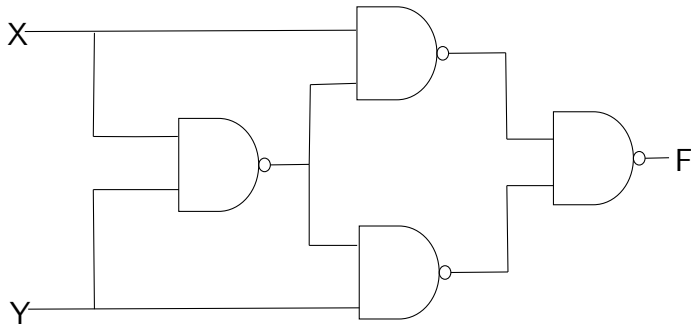
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IITH - Future Wireless Communications (FWC)

CONTENTS

1 QUESTION

The Boolean function $F(X, Y)$ realized by the given circuit is



2 COMPONENTS

| Component | Values | Quantity |
|-------------|--------|----------|
| Arduino | UNO | 1 |
| JumperWires | M-M | 4 |
| LED | | 3 |

3 TRUTH TABLE

| X | Y | OUTPUT |
|---|---|--------|
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

4 IMPLEMENTATION

| Arduino PIN | led |
|-------------|--------|
| D4 | INPUT |
| D5 | INPUT |
| D8 | OUTPUT |
| GND | GND |

Connections



Fig. 1: led1

a) *Procedure*

1. Connect the circuit as per the above table.
2. Connect the leds to Arduino.

<https://github.com/MASEEDUNITIN/fwc/blob/master/platformio/code/code.cpp>

5 LED OUTPUT

[H]

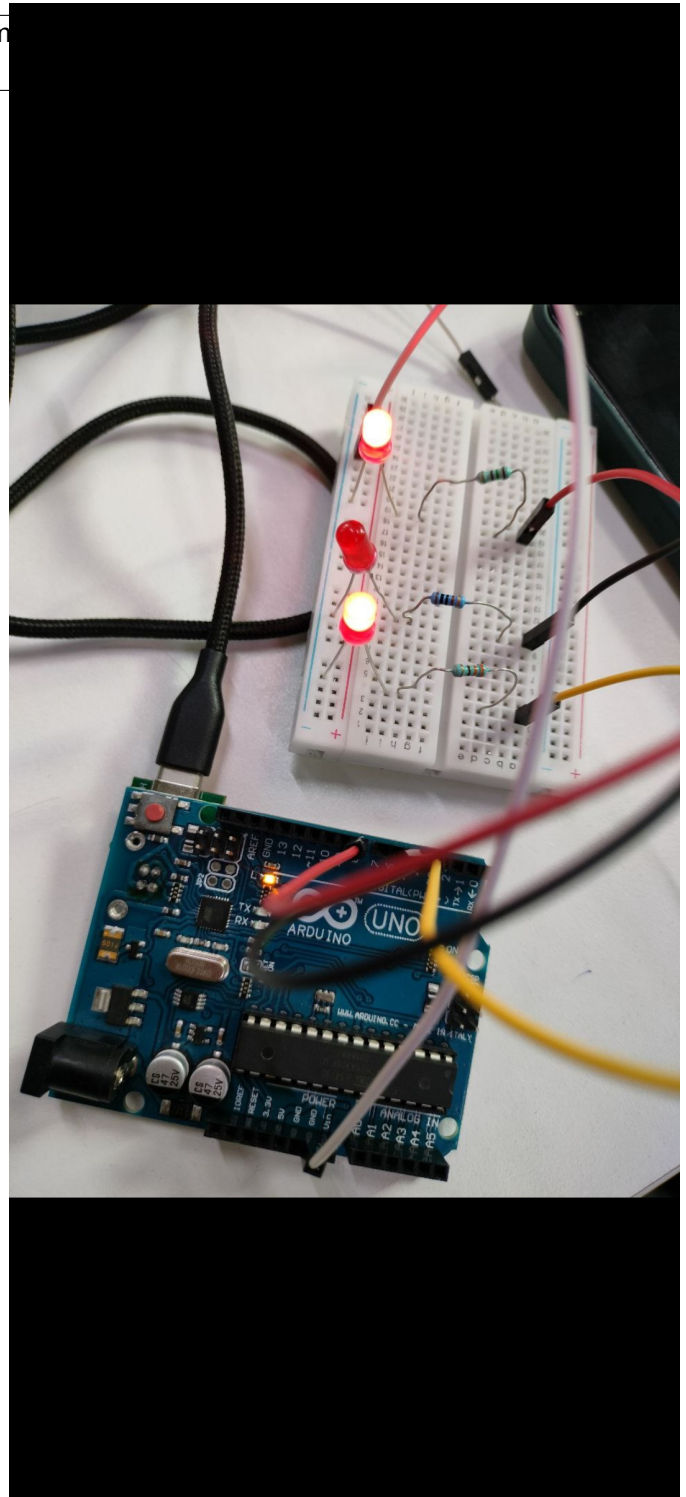


Fig. 2: Arduino connection with led