



platformio Assignment

AKHILA THALLA
Roll No: FWC22312
akhilathalla0104@gmail.com

I. ABSTRACT

This paper explains the identification of the complete set of logic gates designated as universal gates. Universal gates are logic gates that can implement any Boolean function.

II. COMPONENTS

The required components list is given in Table:I.,

components	value	quality
Led's		2
Arduino	UNO	1
jumperwires		50
Breadboard		1

TABLE I

III. PROCEDURE

- 1) Connect the Led's to the Arduino uno.
- 2) Give the inputs manually using jumper wires.
- 3) Truth Table for NAND and NOR gates.

A	B	A NOR B	A NAND B
0	0	1	1
0	1	0	1
1	0	0	1
1	1	0	0

TABLE II

- 4) Check the outputs by changing inputs as per truth table.
- 5) Execute the arduino code using the pio run command in nvim editor.
- 6) After upload the code into hardware setup using arduino IDE platform.

IV. RESULTS

- 1) Download the code given in the link below and execute them to see the output as shown in Fig.2.
- 2) <https://github.com/Akhilathalla/Akhila/blob/main/platformio/main.cpp>

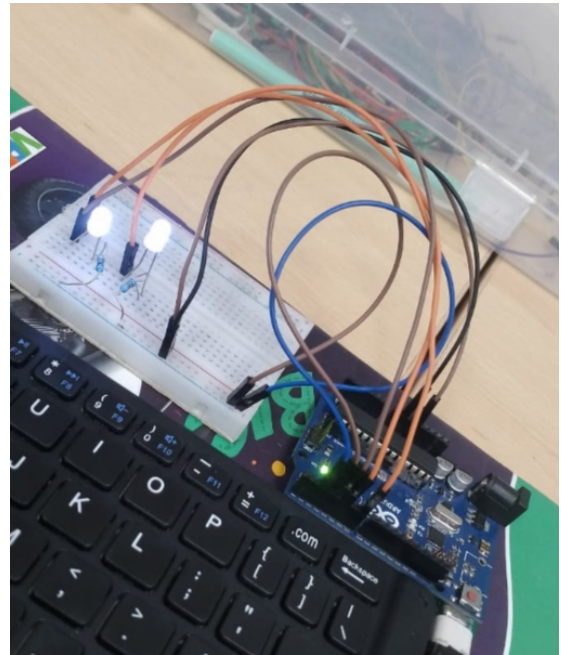


Fig. 1.

V. CONCLUSION

Hence implementation of platformio using LED is done and verified through truth table.