IOT LAB - 5th Sem

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Program No: 15

Program Title: RGB LED interfacing with LCD panel

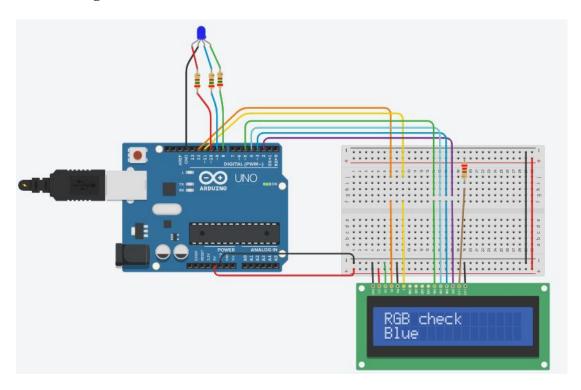
Aim:

To switch colours using a RGB led and display the current colour in the LCD display using an Arduino Uno board.

Hardware Required:

- Arduino Uno Board
- RGB LED
- LCD Panel
- 4 X 240 Ohm Resistor

Circuit Diagram:



Written Code:

```
IOT LAB-14
# include < liquid Crystal. h > 
Liquid Crystal Lod (12, 11, 5, 4, 3, 2);
Void setup () E pinMode (8, OUTPUT);
       pin Mode (a, output);
pin Mode (10, output);
      lcd. begin (16,2);
lcd. phint (" ROB - check");
 void loop()
     led set Curson (0,1);
         (col. phint ("Ked");
         digital Write (10, MICH).
         digital white (9, Low);
         digital Write (8, 2010);
         delay (500),
         Led . set Curgor (0,1);
         Icd. Phint ("Blue");
         digital White (10, 1000), digital White (9, HIGH).
         digital Write (8, LOW).
         délay (500).
          led set Curson (0,1).
         led , print (" Orneen ").
         digital White (10, 10w).
      digital White (9, 400)
digital White (8, 4104).
delay (500).
```

Observation / Output:

The LED turns from Red – Blue – Green and the name of the current colour is displayed on the LCD.