IOT LAB - 5th Sem

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Program No: 15

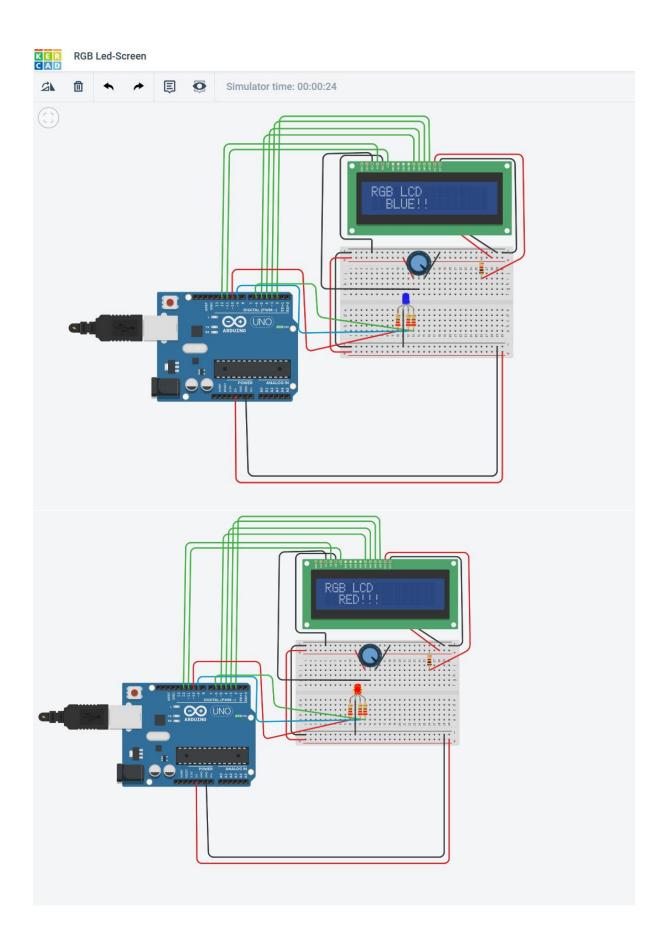
Program Title: RGB LED interfacing with LCD panel

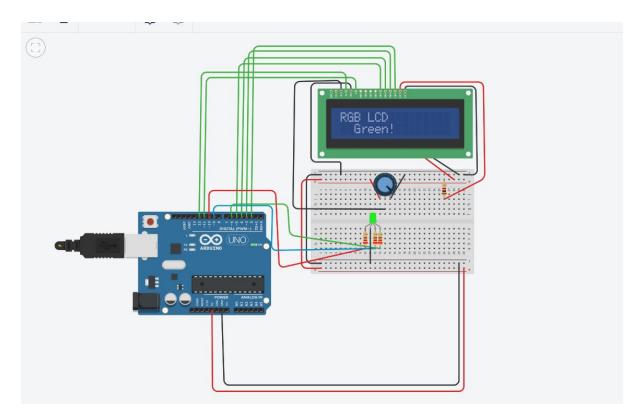
Aim:

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:

```
# include < liquid Crystal. h > Liquid Crystal led (12, 11, 5, 4, 8, 2);
  void setup ()

pinMode (#, output);

pinMode (a, output);

pinMode (10, output);
           led . begin (16,2);
led . phint (" RCB - check");
  void Loop()
            led . set Cursa (0,1),
            Ical . print ( "Ked ");
            digital Write (10, MICH), digital White (9, LOW),
            digital Write (8, 2010);
            delay (500),
Led. set Curson (0,1);
             (cd. Phint ("Blue")
            digital White (10, 2000), digital White (9, MIGH).
             digital Write (8, LOW)
```

Observation / Output:

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