

**Program no** 12

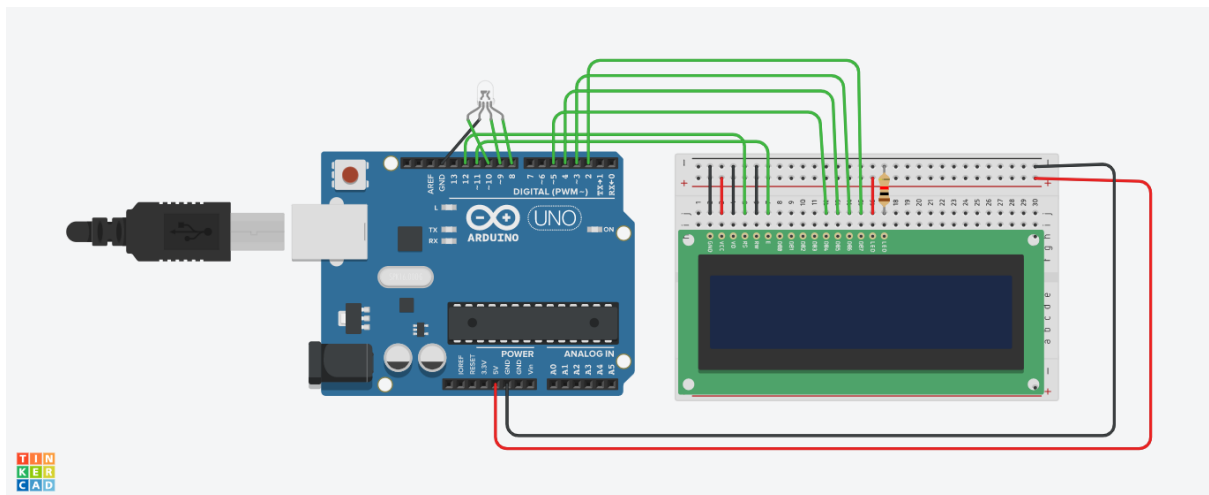
**Program Title** LCD Display RGB Colors

**Aim to display the RGB colors with LCD display.**

### Hardware Required

- Arduino Board
- RGB led
- LCD Display
- resistor
- wires

### Circuit Diagram



## Program Display system to print RGB colors

### Code

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
int red-light-Pin = 10;
int green-light-Pin = 8;
int blue-light-Pin = 9;
void setup()
{
    pinMode(red-light-Pin, OUTPUT);
    pinMode(green-light-Pin, OUTPUT);
    pinMode(blue-light-Pin, OUTPUT);
}

void loop()
{
    lcd.setCursor(0, 0);
    RGB_color(255, 0, 0);
    lcd.print("RED");
    delay(1000);
    lcd.clear();

    RGB_color(0, 255, 0);
    lcd.print("GREEN");
    delay(1000);
    lcd.clear();

    RGB_color(0, 0, 255);
    lcd.print("BLUE");
    delay(1000);
    lcd.clear();
}
```

Abhishek R

Abhishek R  
IBM19CS400

<b>R.O</b>	Page No.
Date	/ /

```
void RGB_color (int red-light-value,  
                int green-light-value,  
                int blue-light-value)  
{  
    analogWrite (red-light-Pin, red-light-value);  
    analogWrite (green-light-Pin, green-light-value);  
    analogWrite (blue-light-Pin, blue-light-value);  
}
```

Abhishek R

### Observation /Output

