

## Program no 15

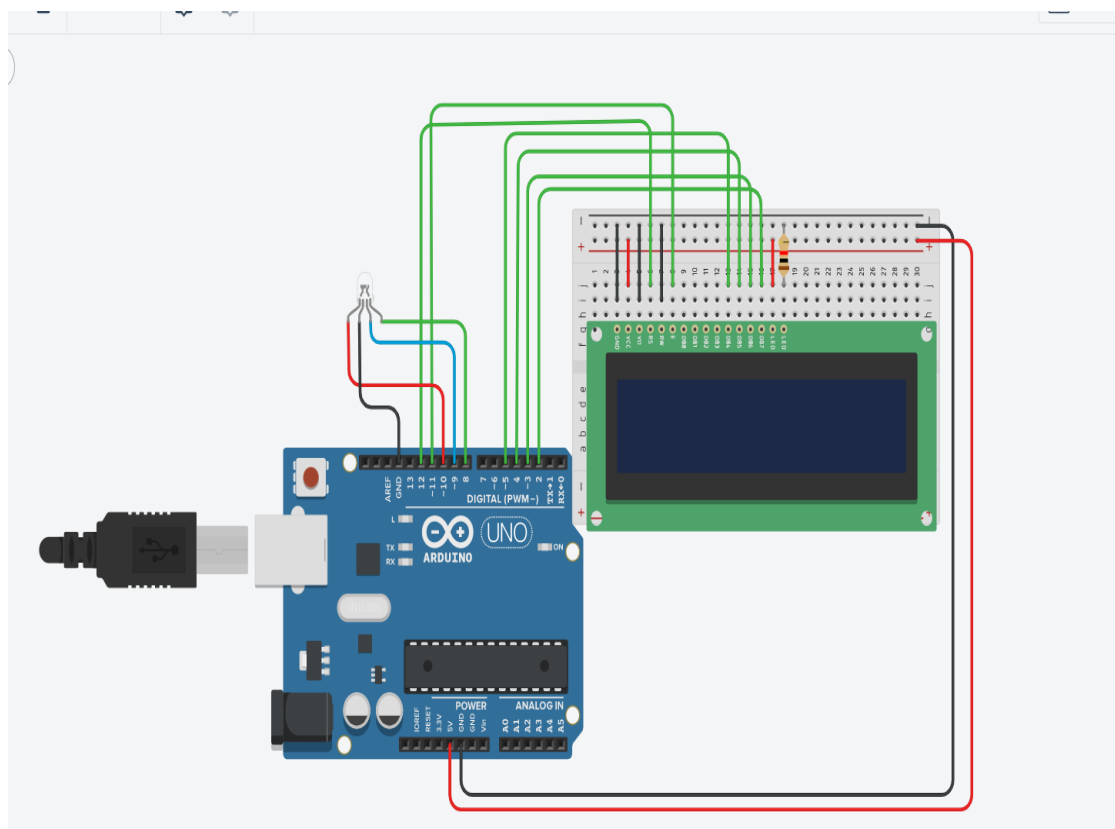
### Program Title RGB Color Display

**Aim :** To display the color with LCD display

#### Hardware Required

- Arduino Board
- Bread board
- Wires
- LCD
- Resistor
- RGB led

#### Circuit Diagram



## Writeup :

Program - 015  
To display the RGB  
color on LED screen.

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```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12,11,5,4,3,2);
int red=10, green=8, blue=9;
void setup()
{
  pinMode(red, OUTPUT);
  pinMode(green, OUTPUT);
  pinMode(blue, OUTPUT);
}
void loop()
{
  led = lcd
  lcd.setCursor(0,0);
  RGB(255,0,0);
  lcd.print("RED");
  delay(1000);
  lcd.clear();

  lcd.setCursor(0,0);
  RGB(0,255,0);
  lcd.print("GREEN");
```

```
    delay(1000);  
    led.clear();  
    led.setColor(0,0);  
    led.print("RED BLUE");  
    RGB(0,0,255);  
    delay(1000);  
    led.clearclear();
```

```
}
```

```
RGB (int r, int g, int b)
```

```
{
```

```
    analogWrite(led, r);
```

```
    analogWrite(green, g);
```

```
    analogWrite(blue, b);
```

```
}
```

**CODE:**

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(12,11,5,4,3,2);

int red=10;

int green=8;

int blue=9;

void setup()
{
    pinMode(red,OUTPUT);
    pinMode(blue,OUTPUT);
    pinMode(green,OUTPUT);
}

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

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

    lcd.setCursor(0,0);
    RGB(0,0,255);
    lcd.print("BLUE");
    delay(1000);
    lcd.clear();
```

```

lcd.setCursor(0,0);

RGB(255,255,255);

lcd.print("WHITE");

delay(1000);

lcd.clear();

for(int i=0;i<15;i++)

{

    lcd.setCursor(i,0);

    lcd.print("WORKING PRIPERLY");

    delay(1000);

    lcd.clear();

}

}

}

void RGB(int r,int g,int b)

{

    analogWrite(red,r);

    analogWrite(green,g);

    analogWrite(blue,b);

}

```

## Observation /Output

