

Name – Shreya Laddha

Program No. – 14

Program Title – RGB Led and LCD

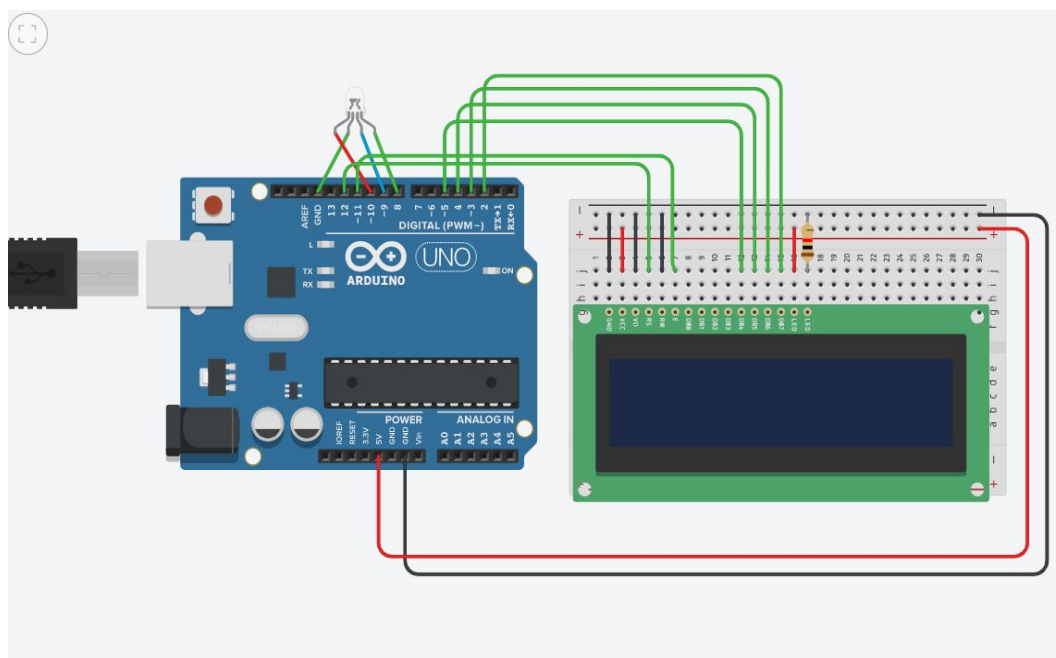
AIM

Design a display system to print the RED,BLUE and Green colors (RGB Led and LCD).

HARDWARES REQUIRED

- Arduino Board
- Breadboard Small
- LCD 16x2
- RGB LED
- Resistor

CIRCUIT DIAGRAM



WRITE-UP

PFA

CODE

```
#include <LiquidCrystal.h>

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


int red=10;
int green=8;
int blue=9;
void setup()
{
    pinMode(10, OUTPUT);
    pinMode(9, OUTPUT);
    pinMode(8, OUTPUT);
}

void loop()
{
    lcd.setCursor(0,0);
    lcd.print("RGB Color Print!");
    delay(1000);
    lcd.clear();
}
```

```
RGB_color(255,0,0);//red
```

```
lcd.print("RED");
```

```
delay(1000);
```

```
lcd.clear();
```

```
RGB_color(0,255,0);//Green
```

```
lcd.print("GREEN");
```

```
delay(1000);
```

```
lcd.clear();
```

```
RGB_color(0,0,255);//Blue
```

```
lcd.print("BLUE");
```

```
delay(1000);
```

```
lcd.clear();
```

```
RGB_color(0,0,0);//White
```

```
lcd.print("WHITE");
```

```
delay(1000);
```

```
lcd.clear();
```

```
}
```

```
void RGB_color(int red_value, int green_value, int blue_value)
```

```

{
  analogWrite(red,red_value);
  analogWrite(green,green_value);
  analogWrite(blue,blue_value);
}

```

OUTPUT

Designed a display system to print the RED,BLUE and Green colors (RGB Led and LCD).

