Name: Shreya Laddhe
USN: 1BM18CS103

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).

Hardware Required
- Arduino Board
- BreadBoard Small
- LCD 16X2
- RGB LED
- Resistor

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);
```

Name: Shreya Laddha
USN: 1BM18CS103

```
lcd.print ("RGB Color Print!");
delay (1000);
lcd.clear ();


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 ();
void RGB_color (int red_value, green_value, int blue_value)
{
    analogWrite (red, red_value);
    analogWrite (green, greenvalue);
    analogWrite (blue, bluevalue);
}
```