

Exp-15

RGB LED

Aim

Design a smart navigation system.

Hardwares Required.

Arduino Board, Breadboard Small, LED RGB,
LCD 16x2, Resistor.

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, 0, 255);  
led.print ("Blue");  
delay(1000);  
led.clear();
```

```
RGB_color (255, 255, 255);  
led.print ("WHITE");  
delay(1000);  
led.clear();
```

```
}
```

```
void RGB_color (int red, int green, int blue)  
{
```

```
    analogWrite (red + light - pin, red);  
    analogWrite (green - light - pin, green);  
    analogWrite (blue - light - pin, blue);
```

```
}
```