

PROGRAM NO: 16

PROGRAM TITLE: RGB with LCD

AIM: Design a display system to print the RED, BLUE and GREEN colours.

HARDWARE REQUIRED: Arduino Board, Breadboard, LED 18x2, 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);

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();

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

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

```
delay(1000);
```

```
led.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);
```

```
}
```

```
}
```