

Program no : 15

Shiva Pooneeth Kodali
IBM18CS100

Program title : RGB Led and LCD

Aim:- Design a display system to print the RED, Blue, green colour.

Hardware Required :
Arduino board
Breadboard Small
LCD 16 x 2
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 colour 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();
```

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

```
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);
```

```
}
```