Program no 15

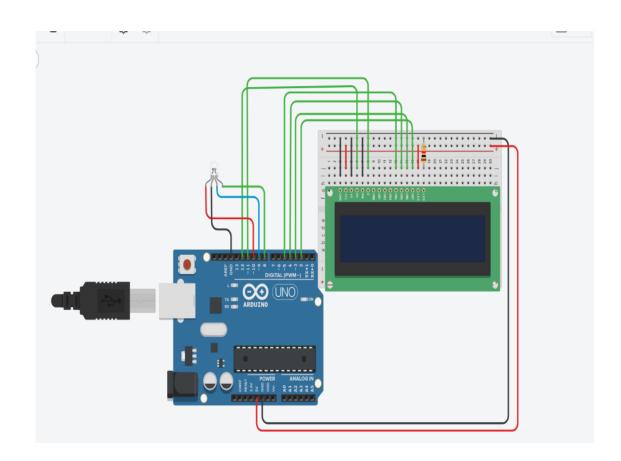
Program Title RGB Color Display

Aim : To display the color with LCD display

Hardware Required

- Arduino Board
- Bread board
- Wires
- LCD
- Resistor
- RGB led

Circuit Diagram



Writeup:

```
Brogain - 015
boto deglay the RIB
color on LED leven.
                                                          Pramod Dry
                                                           18M19GS405
# methode & Lagued Cengetal. h)

Lagued Cengetal (cd (12,111,5,4,3,2);

Put eid=10, gren= e, blue=9;

Yord retape)
 PANMode (peum, OUTPUT);
PANMode (geeum, OUTPUT);
PANMode (blue, OUTPUT);
Vord loop()
 ? ted allowed
        (ed. set Corpor (0,0);
         ROB (255,0,0);
          led. p. Aut (" RED ");
            delay (1000);
            led. clear();
          (cd. get (10,00 (0,0);
            RC1B (0,255,0);
led. prut ( " BIDE");
```

```
delay (1000);
          led. chear();
     ud. getComor(0,0);
        lid.part("GRBLUE");
           PGB (0,0,255);
           delay (1000);
           led depet clear();
ROR ( Put &, Put g, Put b)
      analog with (led, v);
analog wishte (gleen, g);
analog wishte (blue, b);
```

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12,11,5,4,3,2);
int red=10;
int green=8;
int blue=9;
void setup()
{
 pinMode(red,OUTPUT);
 pinMode(blue,OUTPUT);
 pinMode(green,OUTPUT);
}
void loop()
{
 lcd.setCursor(0,0);
 RGB(255,0,0);
 lcd.print("RED");
 delay(1000);
 lcd.clear();
 lcd.setCursor(0,0);
 RGB(0,255,0);
lcd.print("GREEN");
 delay(1000);
 lcd.clear();
 lcd.setCursor(0,0);
 RGB(0,0,255);
 lcd.print("BLUE");
 delay(1000);
 lcd.clear();
```

```
lcd.setCursor(0,0);
 RGB(255,255,255);
lcd.print("WHITE");
 delay(1000);
lcd.clear();
for(int i=0;i<15;i++)
{
  lcd.setCursor(i,0);
 lcd.print("WORKING PRIPERLY");
  delay(1000);
  lcd.clear();
}
}
void RGB(int r,int g,int b)
{
 analogWrite(red,r);
 analogWrite(green,g);
 analogWrite(blue,b);
}
```

Observation / Output

