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1BM18CS090

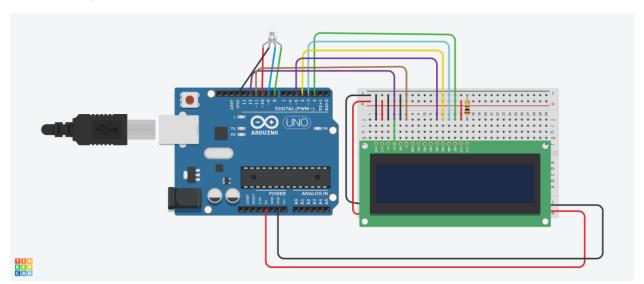
PROGRAM TITLE: RGB LED AND LCD

Aim: DESIGN A DISPLAY SYSTEM TO PRINT RED, BLUE AND GREEN COLORS (RGB LED and LCD)

Hardware Required:

- Wires
- LCD
- LED
- Breadboard
- Arduino UNO

Circuit Diagram:



Write-Up:

	Date
EXPL. No. 14 Page No. 22	xpt. No. 14. Page No. 2
Air: Derign TK based SERVO Hotor controller. (Hockwise and Counterclockwise rotation of shaft)	Void loop () 2 if (inser. decode (laceuts)) ? Juritch (results, value)
Hardware Required:- → Ardwino Board → Breadboard	case 0xFD80FF: myselve.abach(9):
- Mila Seno - Th Sensor - Th hemote	Serval printin ("Mort"); Jack Ox FD 609F;
t withdex Selvo.h	Sural quitte (360); Sural quitte ("Cockworse");
# unclude Stremote by wir RECV_PIN = 11/	case OXF D20D!; myrano, with (-360) Serial, punty (counter clockuri);
There wiew (REW Pin); denode- remiss. remiss;	defaul: Scald, printly "Unrecognish code eccesived: 0.
Surp myuno;	Senie puitte (sosuld value, HEX);
Script begin (9600); wicov. enable TKIN();	wices, resume ();

CODE:

#include<LiquidCrystal.h>

```
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
//Parameters: (rs, enable, d4, d5, d6, d7)
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); // Red
  lcd.print("RED");
```

```
delay(1000);
 lcd.clear();
 RGB color(0, 255, 0); // Green
 lcd.print("GREEN");
 delay(1000);
 lcd.clear();
 RGB color(0, 0, 255); // Blue
 lcd.print("BLUE");
 delay(1000);
 lcd.clear();
 RGB color(255, 255, 255); // White
 lcd.print("WHITE");
 delay(1000);
 lcd.clear();
void RGB color(int red light value, int
green_light_value, int blue_light_value)
 analogWrite(red_light_pin, red_light_value);
 analogWrite(green light pin,
green_light_value);
 analogWrite(blue_light_pin, blue_light_value);
}
```

OBSERVATION/OUTPUT

Displays the colour on the LCD.