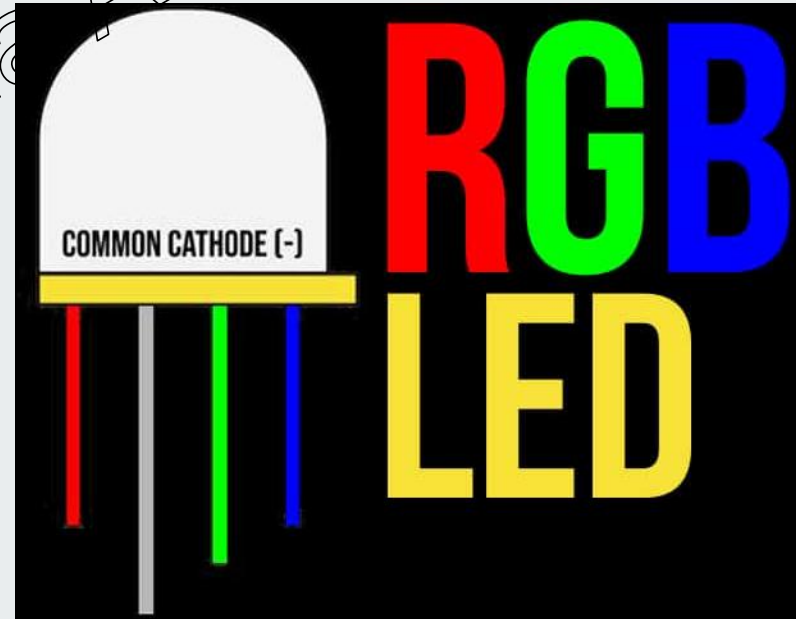
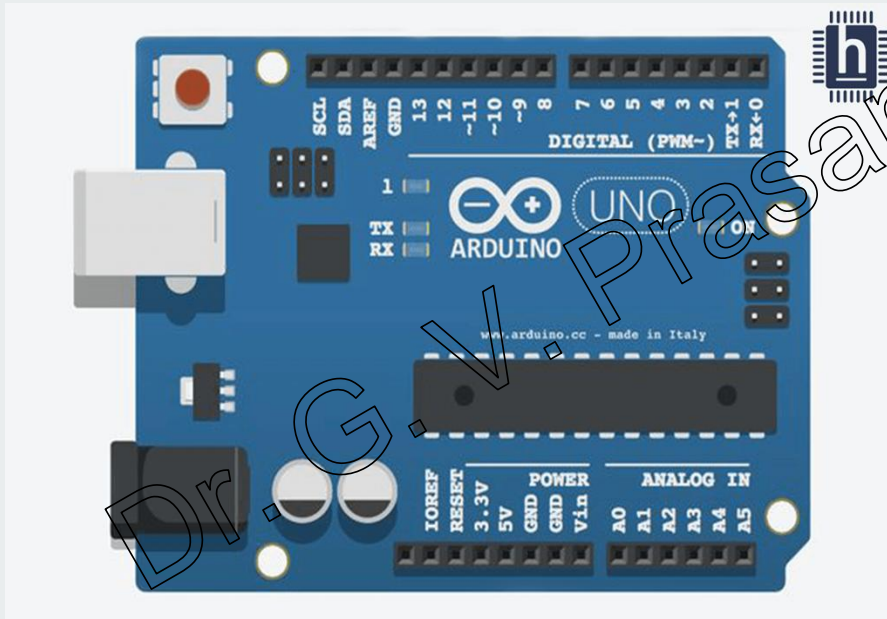
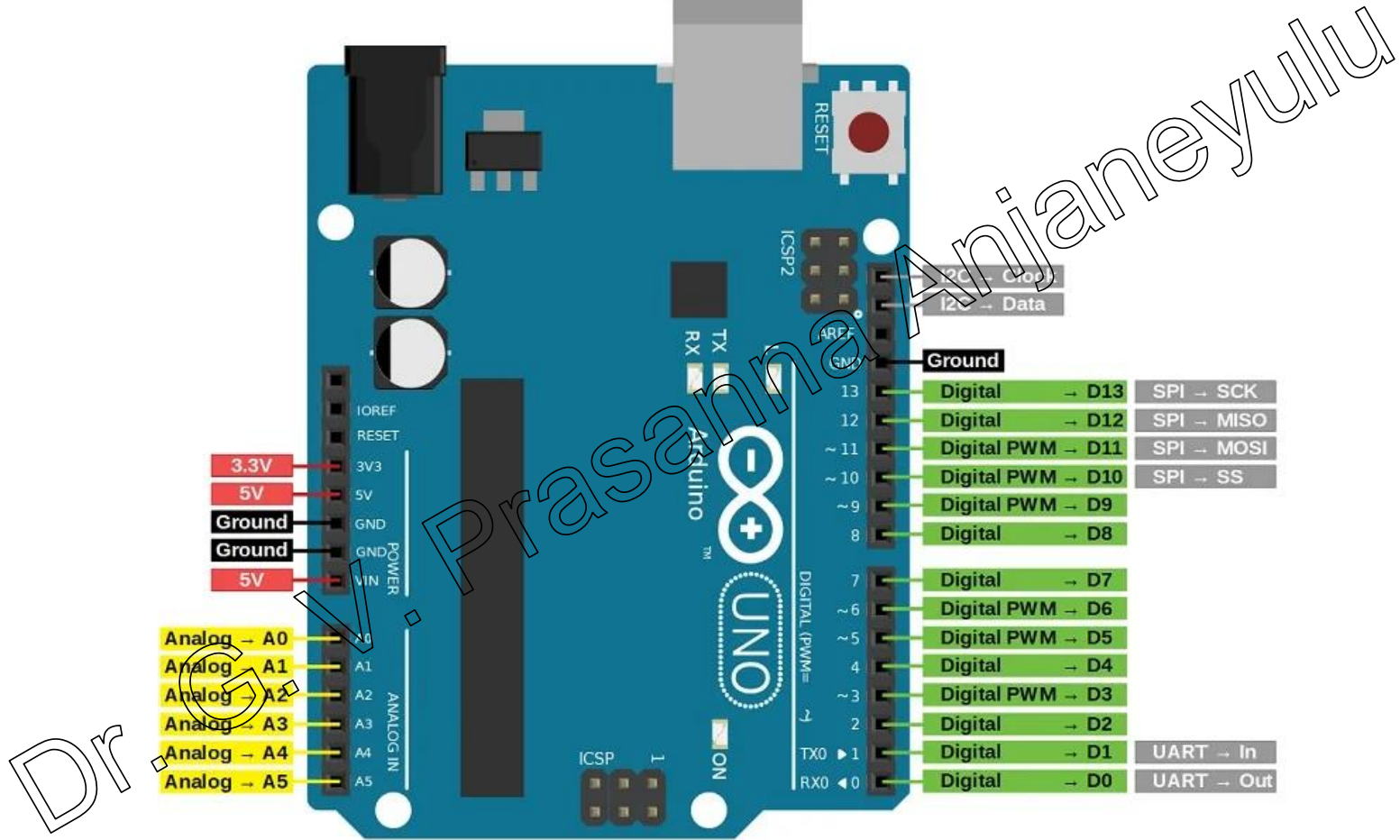


Tricolor_LED

(Common Cathode mode)





Apparatus

1.PC with Arduino IDE

2.Arduino UNO Board

3.USB cable

4.Tri-Color LED

5.Bread board

6.1k Ω resistor

7.Jumper wires

Apparatus

1.PC with Arduino IDE

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Apparatus

1.PC with Arduino IDE

2.Arduino UNO Board

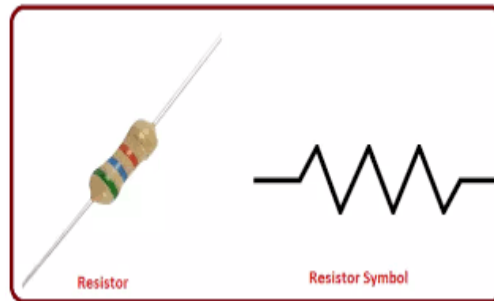
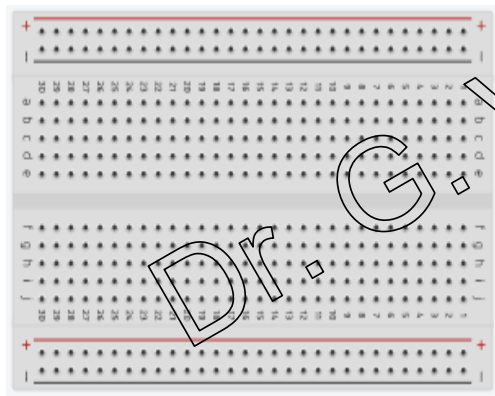
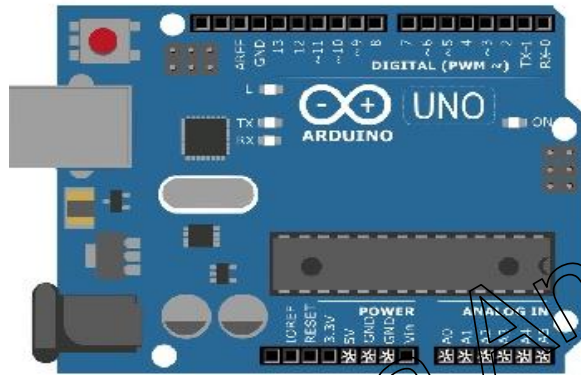
3.USB cable

4.Tri-Color LED

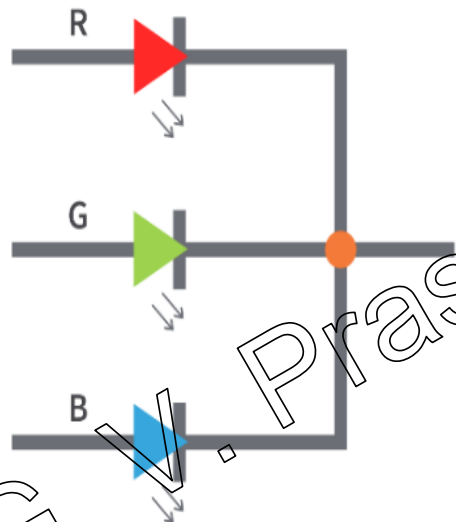
5.Bread board

6.1k Ω resistor

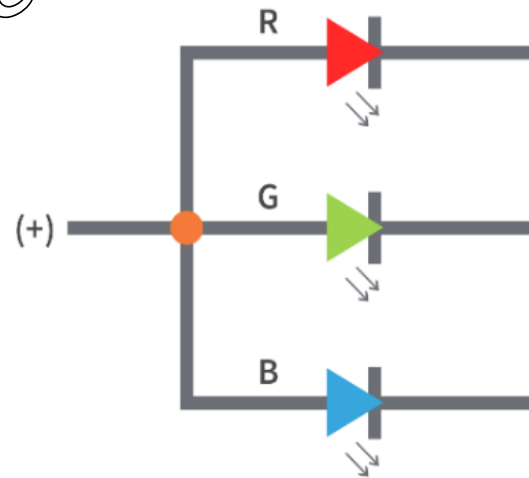
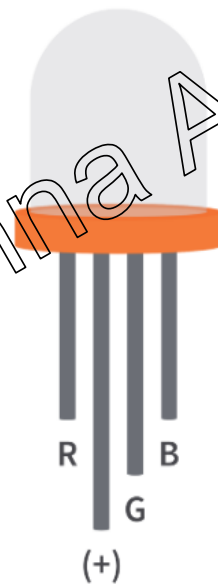
7.Jumper wires



LED

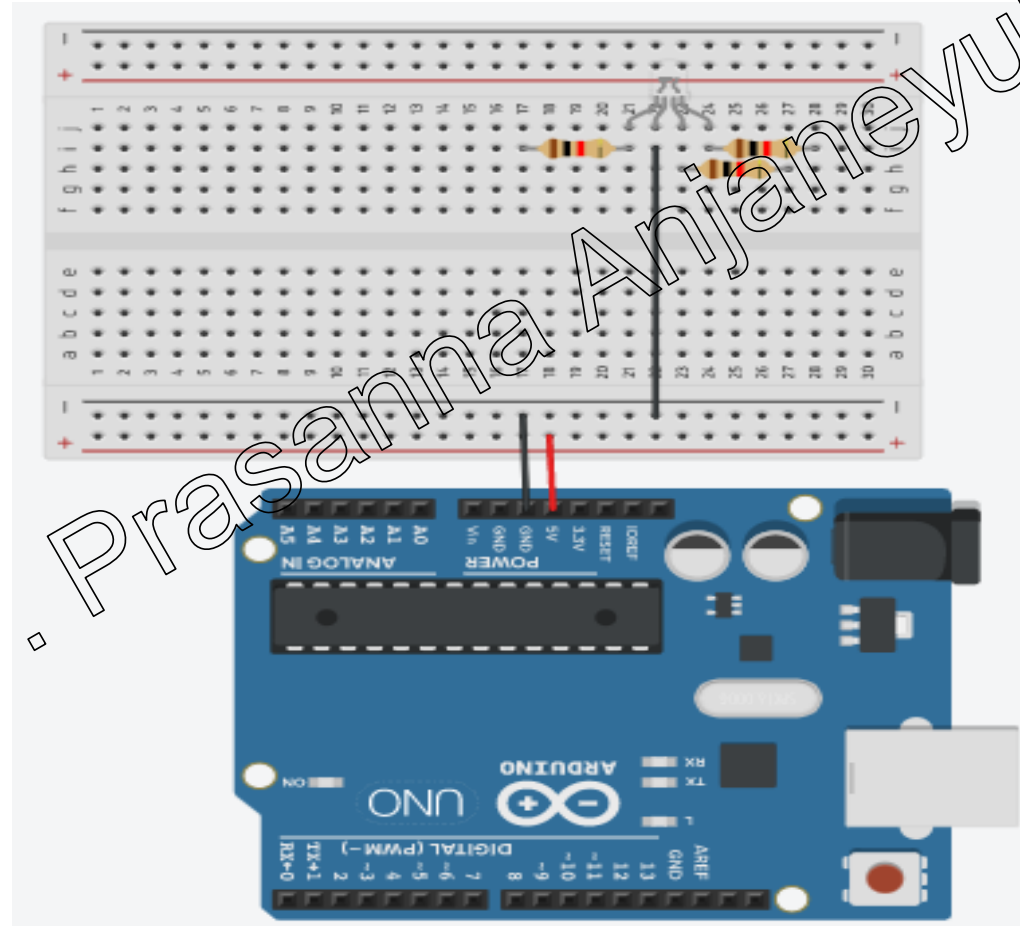


Common Cathode



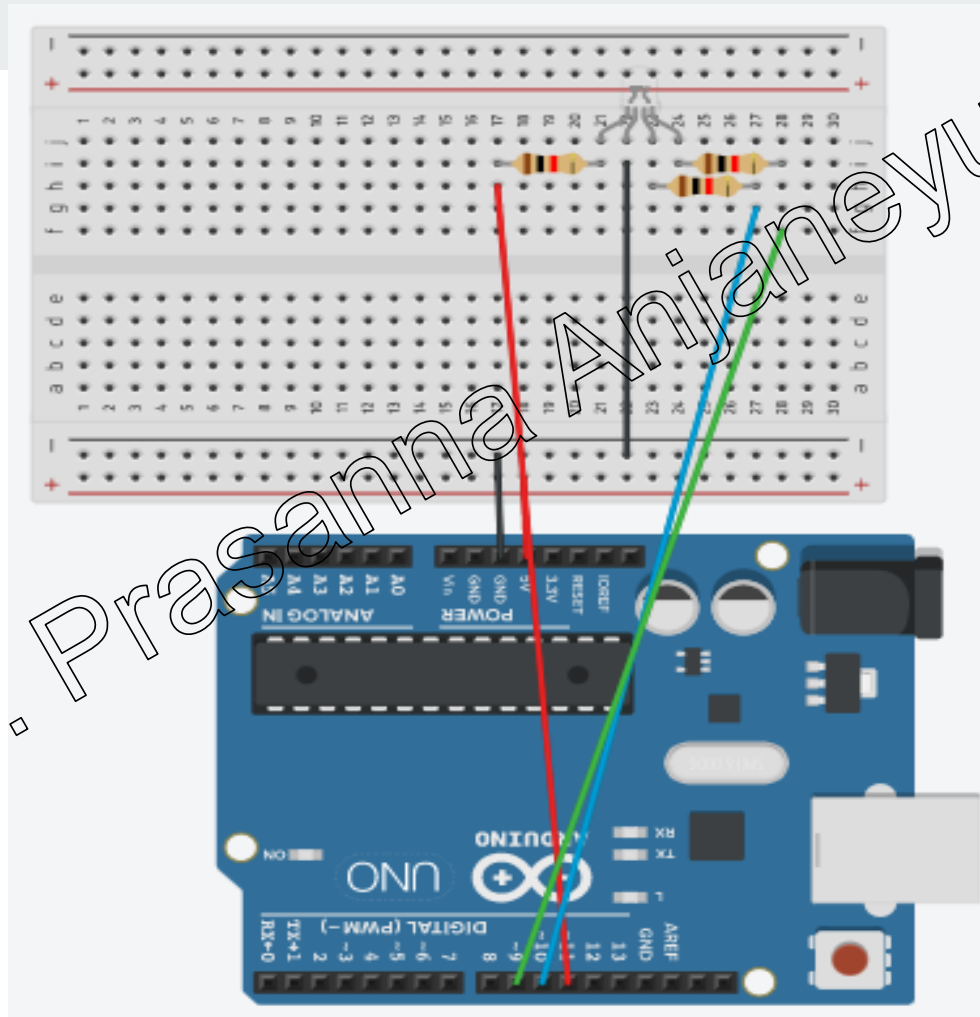
Common Anode

Implementation



Tri_Color_LED by Dr. GVP

Contd.....



Tri_Color_LED by Dr. GVP

Program



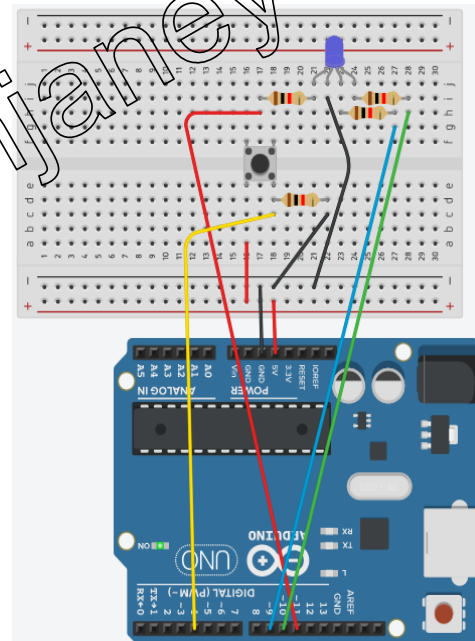
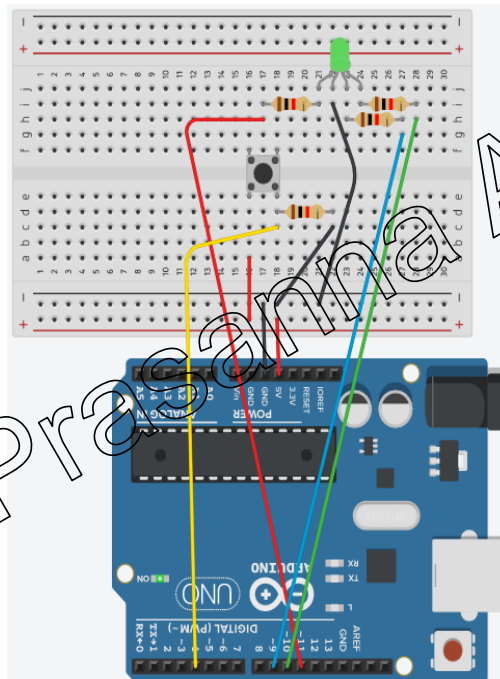
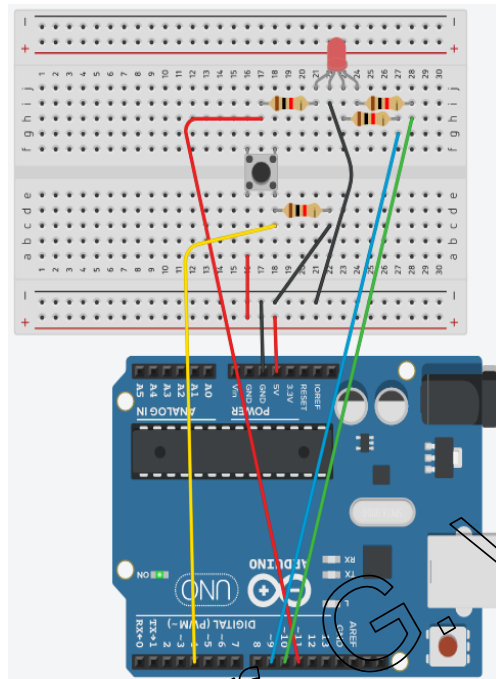
//program for TricolorLED in CommonCathode mode

void setup()

```
{  
  pinMode(11,OUTPUT);//RED  
  pinMode(10,OUTPUT);//BLUE  
  pinMode(9,OUTPUT);//GREEN  
}
```

void loop()

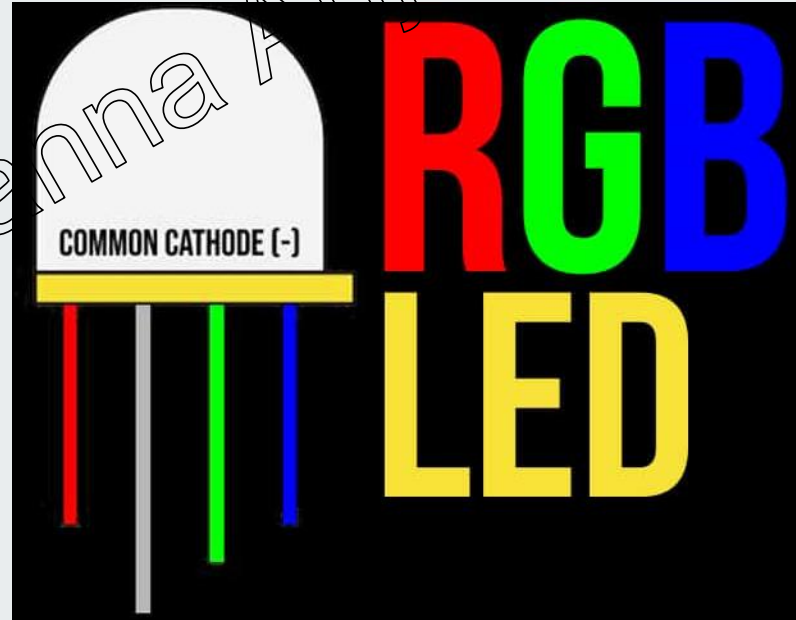
```
{  
  digitalWrite(11,HIGH);//RED  
  delay(1000);  
  digitalWrite(11,LOW);  
  delay(1000);  
  
  digitalWrite(10,HIGH);//RED  
  delay(1000);  
  digitalWrite(10,LOW);  
  delay(1000);  
  
  digitalWrite(9,HIGH);//RED  
  delay(1000);  
  digitalWrite(9,LOW);  
  delay(1000);  
}
```



Tri_Color_LED by Dr. GVP

Tricolor_LED with PushButton

(CommonCathode mode)



Apparatus

1.PC with Arduino IDE

2.Arduino UNO Board

3.USB cable

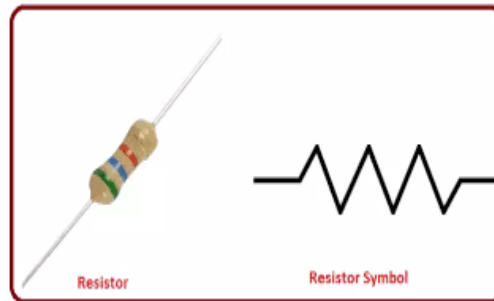
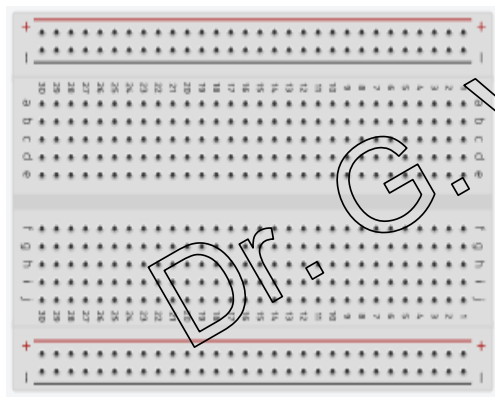
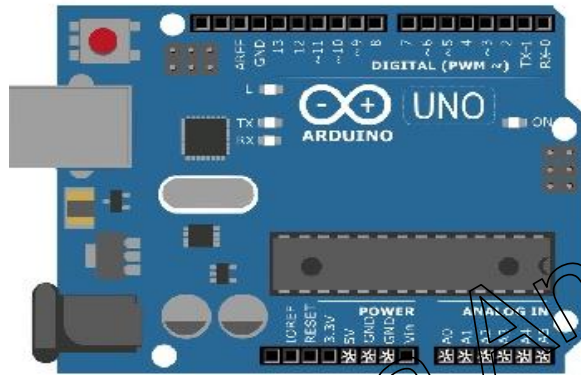
4.Tri-Color LED

5.Bread board

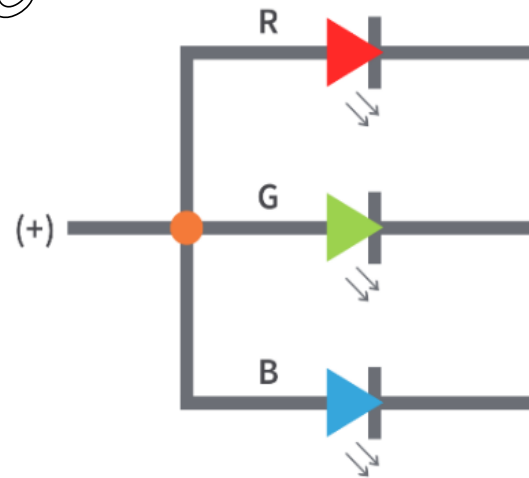
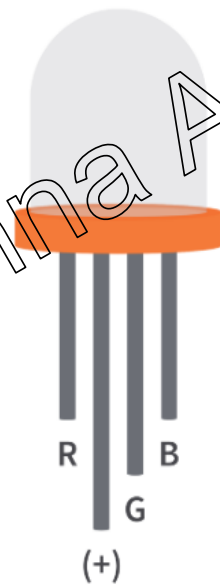
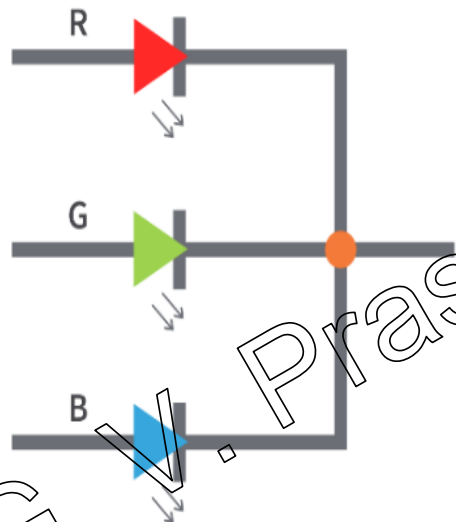
6.1k Ω resistor

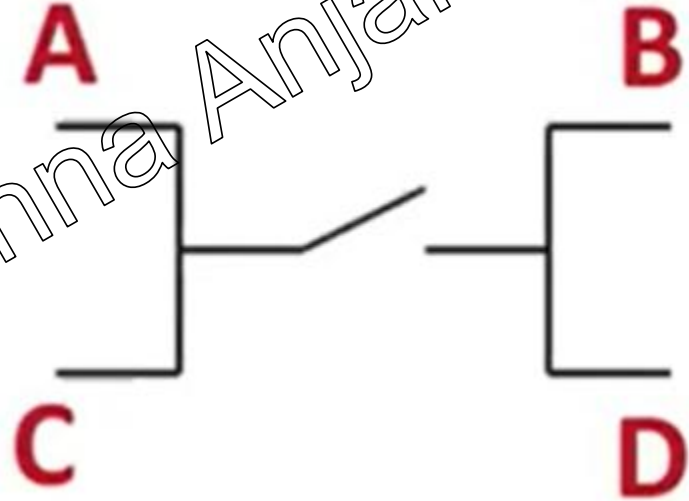
7.Jumper wires

8.Pushbutton switch

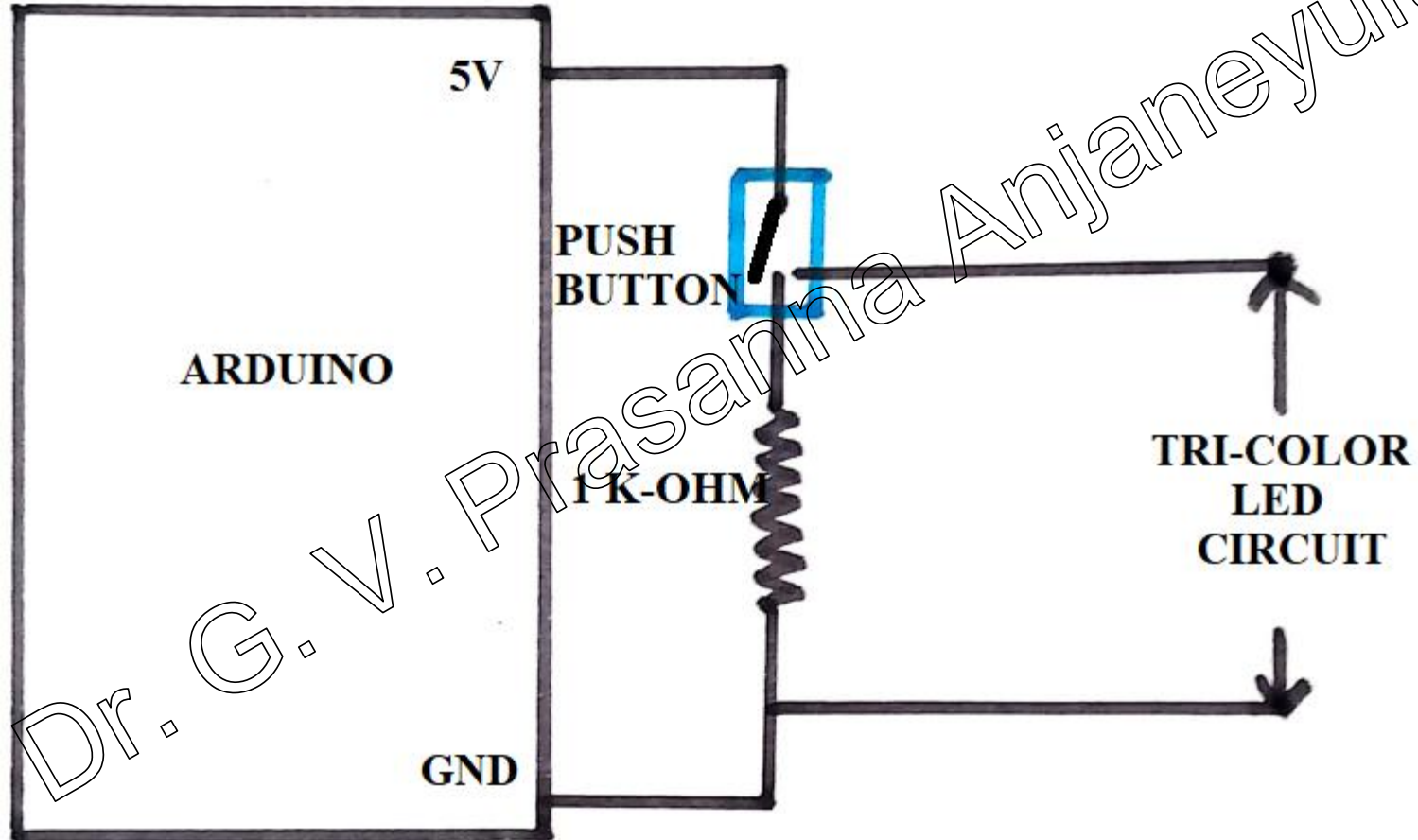


LED

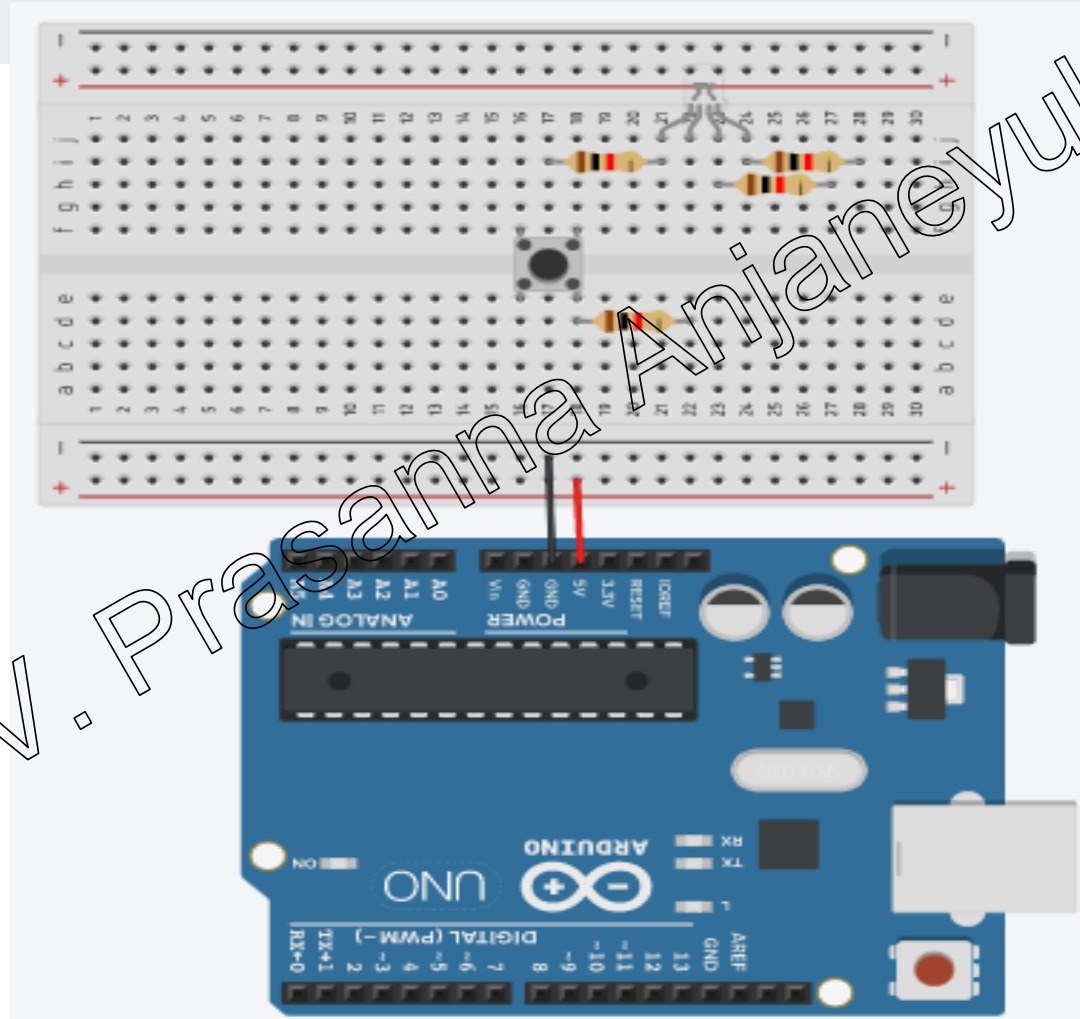




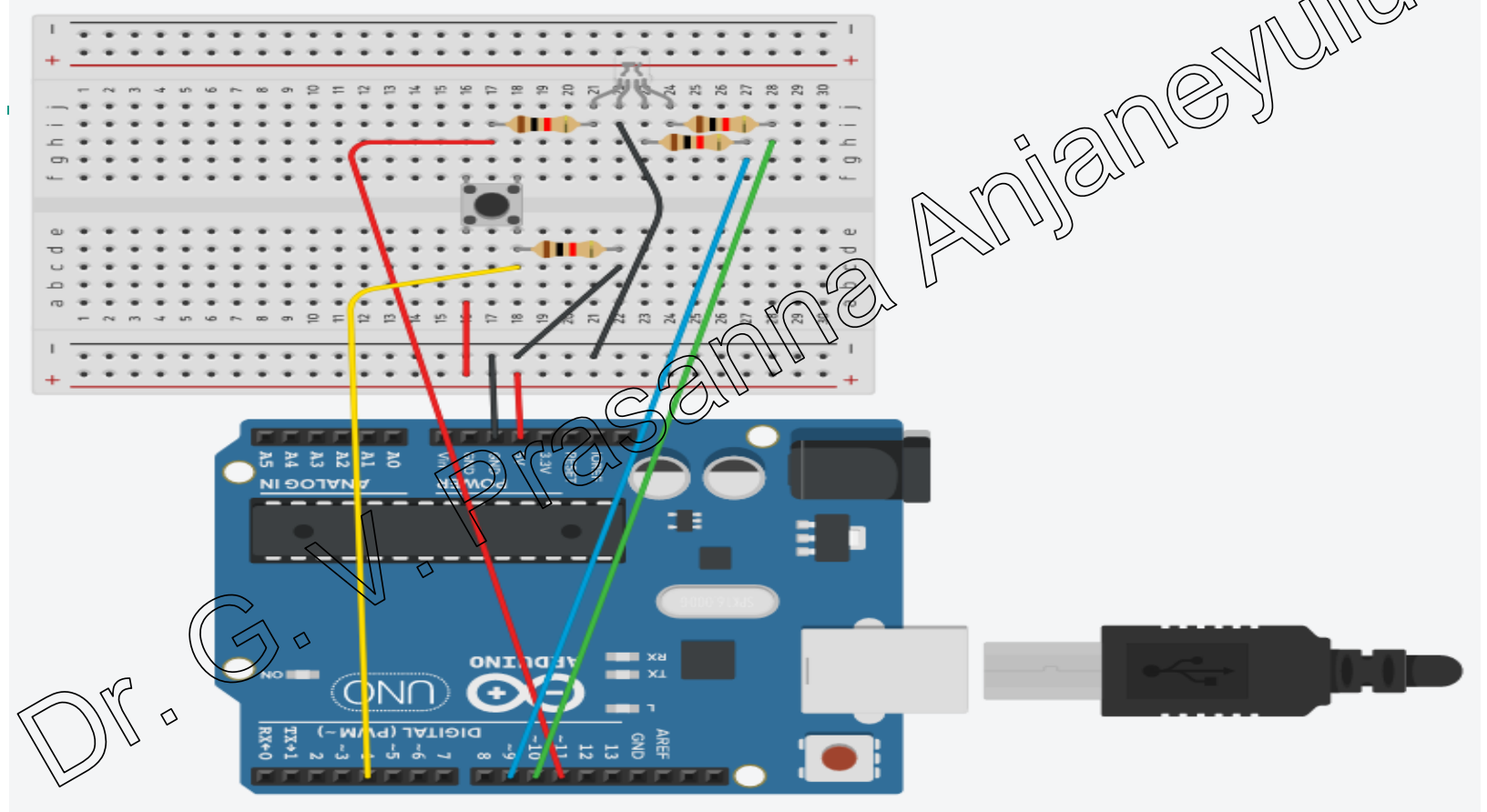
CIRCUIT Diagram



Implementation



Implementation



Tri_Color_LED by Dr. GVP

Program



//program for TricolorLED in CommonCathode mode with PushButton

void setup()

```
{  
  pinMode(11,OUTPUT);//RED  
  pinMode(10,OUTPUT);//BLUE  
  pinMode(9,OUTPUT);//GREEN  
  pinMode(4,INPUT);  
}
```

void loop()

```
{  
  if(digitalRead(4)== HIGH)  
  {  
    digitalWrite(11,HIGH);//RED  
    delay(1000);  
    digitalWrite(11,LOW);  
    delay(1000);  
  
    digitalWrite(10,HIGH);//RED  
    delay(1000);  
    digitalWrite(10,LOW);  
    delay(1000);  
  
    digitalWrite(9,HIGH);//RED  
    delay(1000);  
    digitalWrite(9,LOW);  
    delay(1000);  
  }  
}
```

Once push button switch on the following three steps in sequence done

