

RGB_LED.ino

```

1  #define LED1RED 5
2  #define LED1BLUE 3
3  #define LED1GREEN 4
4  void setup() {
5      pinMode(LED1RED, OUTPUT);
6      pinMode(LED1BLUE, OUTPUT);
7      pinMode(LED1GREEN, OUTPUT);
8      Serial.begin(9600);
9  }
10 void loop() {
11     digitalWrite(LED1RED, HIGH);
12     Serial.println("LED1RED");
13     delay(1000);
14     digitalWrite(LED1RED, LOW);
15     Serial.println("LED1RED");
16     delay(1000);
17
18     digitalWrite(LED1BLUE, HIGH);
19     Serial.println("LED1BLUE");
20     delay(1000);
21     digitalWrite(LED1BLUE, LOW);
22     Serial.println("LED1BLUE");
23     delay(1000);
24
25     digitalWrite(LED1GREEN, HIGH);
26     Serial.println("LED1GREEN");
27     delay(1000);
28     digitalWrite(LED1GREEN, LOW);
29     Serial.println("LED1GREEN");
30     delay(1000);
31 }

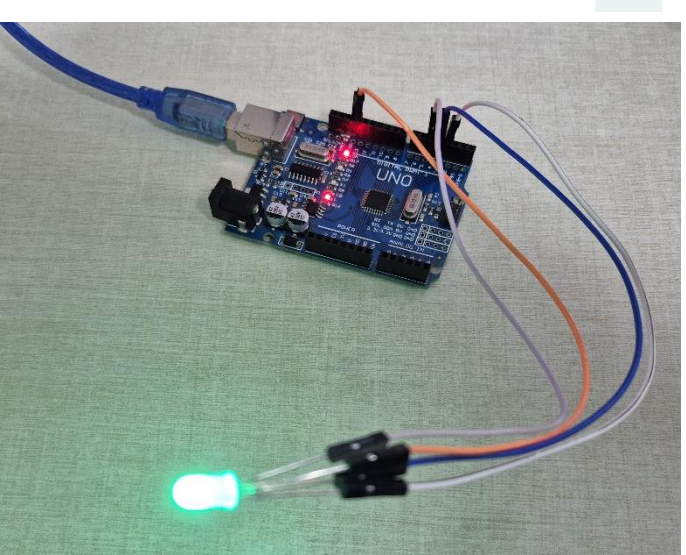
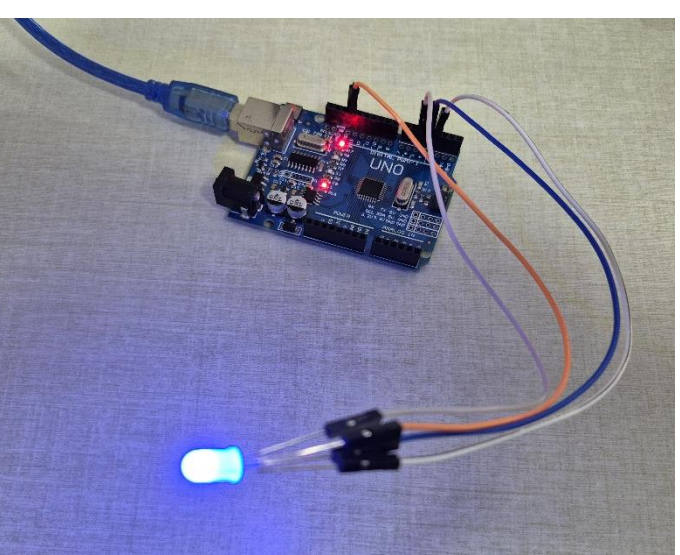
```

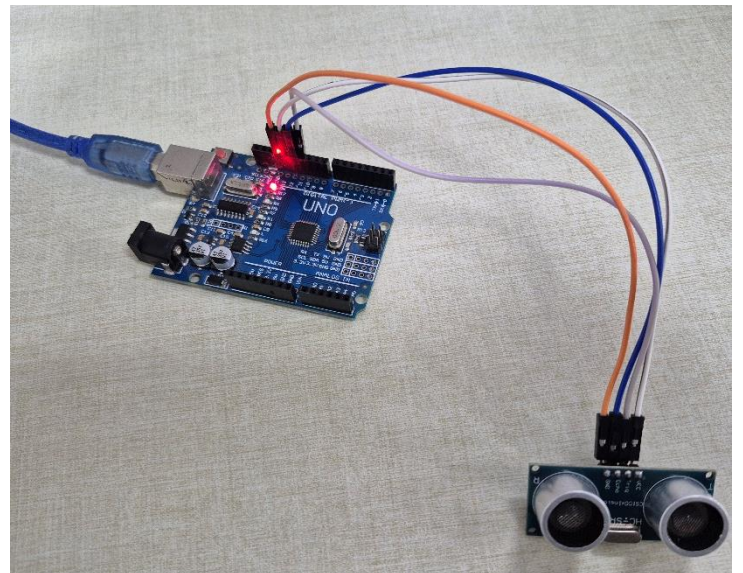
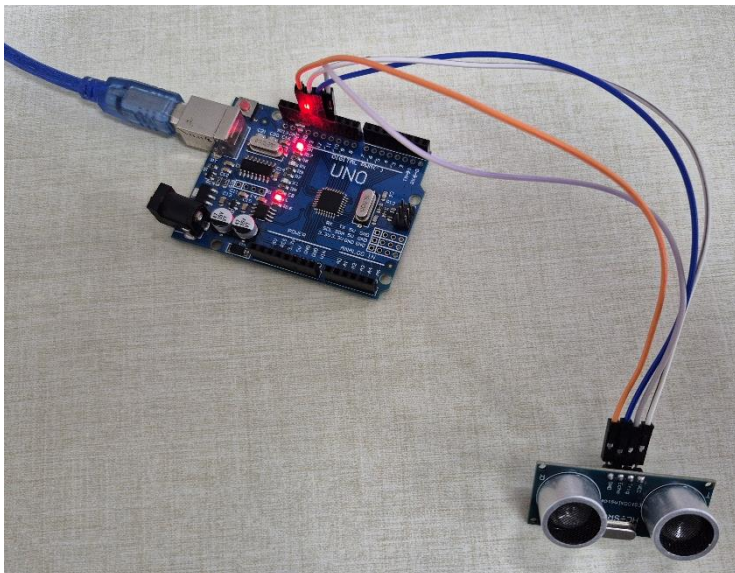
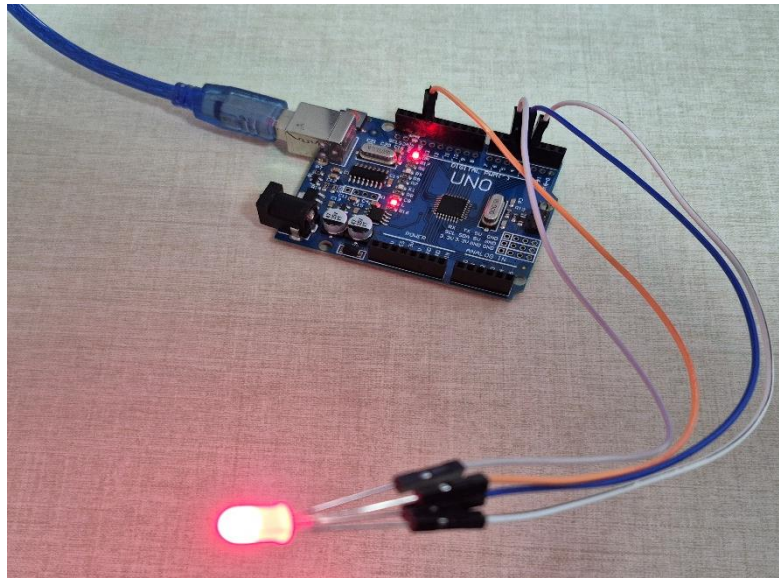
ULTRASONIC_SENSOR.ino

```

1  #define trigPin 11
2  #define echopin 12
3  #define ledpin 13
4  void setup() {
5      Serial.begin(9600);
6      pinMode(trigPin, OUTPUT);
7      pinMode(echopin, INPUT);
8      pinMode(ledpin, OUTPUT);
9  }
10 void loop() {
11     long duration, distance;
12     digitalWrite(trigPin, LOW);
13     delayMicroseconds(2);
14     digitalWrite(trigPin, HIGH);
15     delayMicroseconds(10);
16     digitalWrite(trigPin, LOW);
17     duration = pulseIn(echopin, HIGH);
18     distance = (duration/2) / 29.1;
19     if(distance<10)
20     {
21         digitalWrite(ledpin,HIGH);
22     }
23     else
24     {
25         digitalWrite(ledpin, LOW);
26     }
27     Serial.print("distance ");
28     Serial.print(distance);
29     Serial.println(" cm");
30     delay(1000);
31 }

```





```
16:40:04.119 -> 0cm  
16:40:04.638 -> 5cm  
16:40:05.153 -> 3cm  
16:40:05.653 -> 4cm  
16:40:06.144 -> 2cm  
16:40:06.686 -> 805cm  
16:40:07.869 -> 0cm  
16:40:08.446 -> 805cm
```