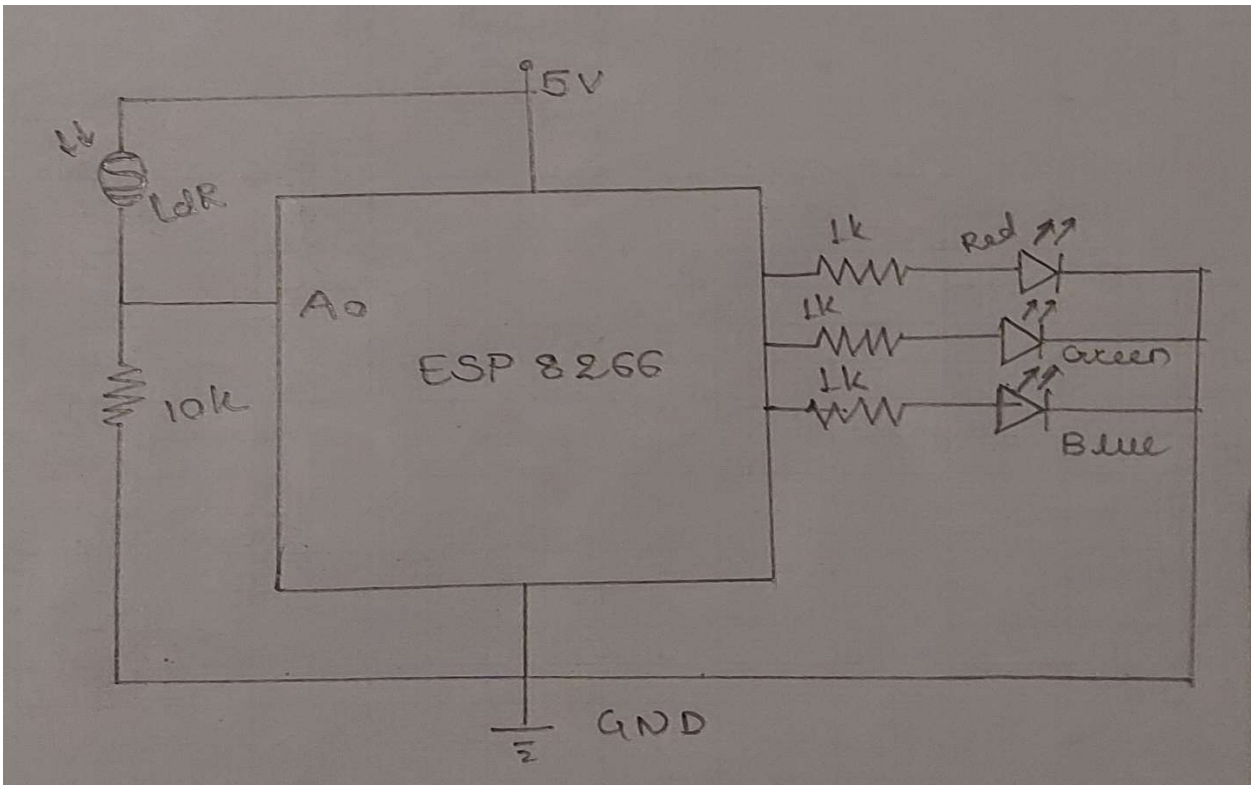
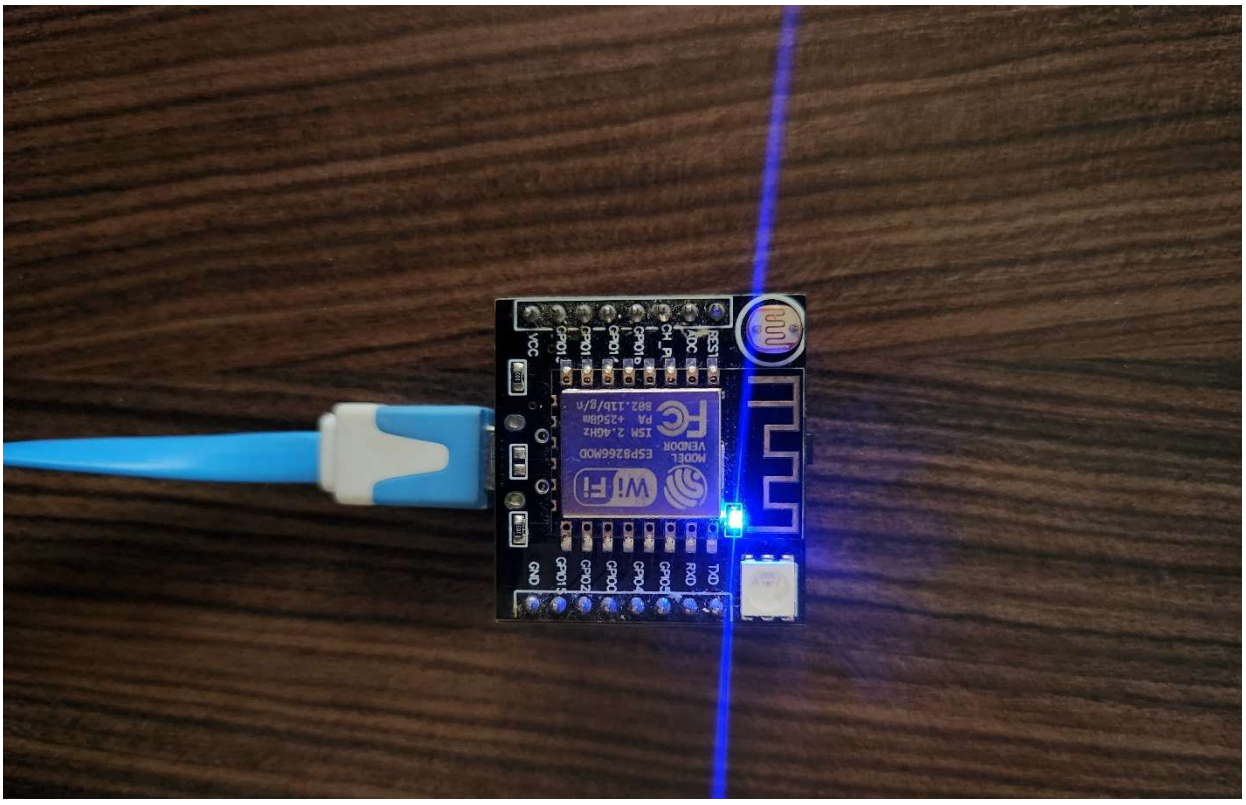
```
/*
Experiment No. :    15
Statement      :    To send data from ESP8266 Witty Cloud Development Board on ThingSpeak cloud.
Date of Exp.   :    xx/xx/xxxx
Author         :    Aabha S. Nimje(A-33)
*/
//to make witty board as access point
#include<ESP8266WiFi.h>
#include<ThingSpeak.h>
#define led 2
#define red 15
#define green 12
#define blue 13
#define ldr A0

WiFiClient client;
long myChannelNumber = 2477918;
const char myWriteAPIKey[]="MUFZ3KBFYSBJCK9N";
void setup() {
pinMode(led,OUTPUT);
pinMode(red,OUTPUT);
pinMode(green,OUTPUT);
```

```
pinMode(blue,OUTPUT);


Serial.begin(9600);
WiFi.begin("Aabha's M51","aabha3004");
while (WiFi.status() != WL_CONNECTED) {
Serial.print('.');
delay(200);
}
Serial.println();
Serial.println("Witty board connected!");
Serial.println (WiFi.localIP());
ThingSpeak.begin(client);
}


void loop (){
int value = analogRead(ldr);
Serial.println (value);
ThingSpeak.writeField(myChannelNumber, 1, value, myWriteAPIKey);
delay(2000);
}
```


5V
LDR
A0
ESP 8266
10K
1k
Red
1k
Green
1k
Blue
GND




Output
Serial Monitor
Message (Enter to send message to 'NodeMCU 1.0 (ESP-12E Module)' on 'COM5')
New Line
9600 baud
15:29:55.492 -> 91
15:29:58.403 -> 86
15:30:01.553 -> 91
15:30:04.772 -> 86
15:30:08.188 -> 87
15:30:11.180 -> 78
15:30:14.549 -> 86
15:30:17.565 -> 87
15:30:20.672 -> 90
15:30:23.661 -> 87
15:30:27.244 -> 76
15:30:30.251 -> 78
15:30:33.328 -> 78
15:30:36.800 -> 91
15:30:39.945 -> 86
15:30:43.263 -> 86
15:30:46.504 -> 88
15:30:49.685 -> 96
15:30:53.641 -> 99