

```
/*
```

```
Experiment No. : 15
```

```
Statement : To send data from ESP8266 Witty Cloud  
Development Board on ThingSpeak cloud.
```

```
Date of Exp. : xx/xx/xxxx
```

```
Author : Mansi Mandhane (A-24)
```

```
*/
```

```
#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 =2477902;
```

```
const char myWriteAPIKey[]="LQKJCAAJDGGKQPQ9";
```

```
void setup() {
```

```
pinMode(led,OUTPUT);
```

```
pinMode(red,OUTPUT);
```

```
pinMode(green,OUTPUT);
```

```
pinMode(blue,OUTPUT);
```

```
Serial.begin(9600);
```

```
WiFi.begin("Mansi's S22","mansil702");
```

```
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 () {
```

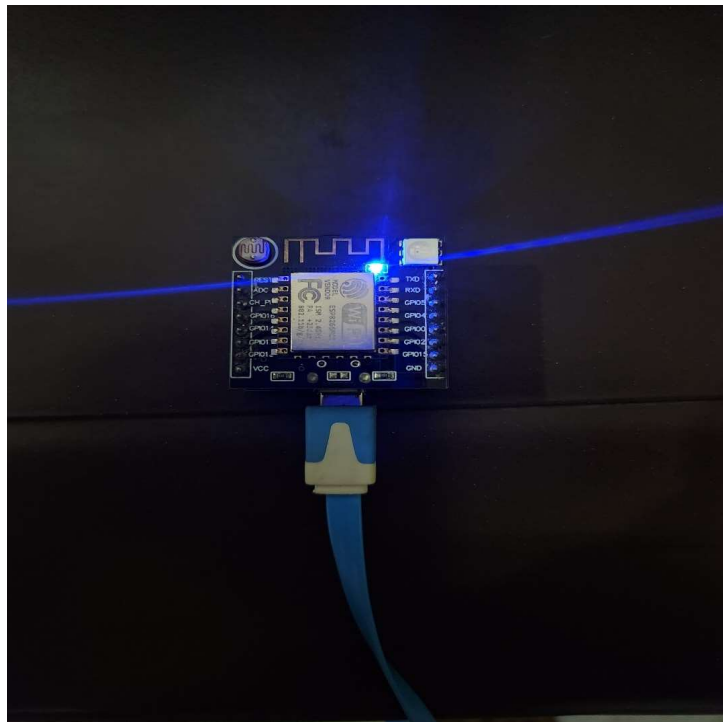
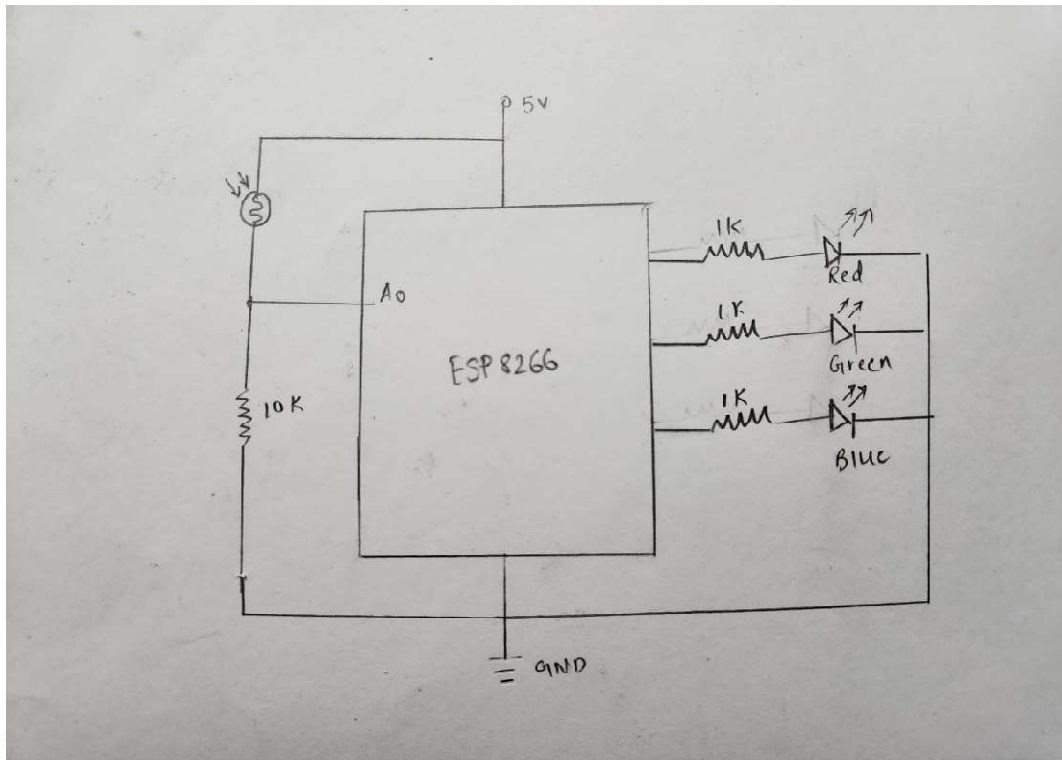
```
int value = analogRead(ldr);
```

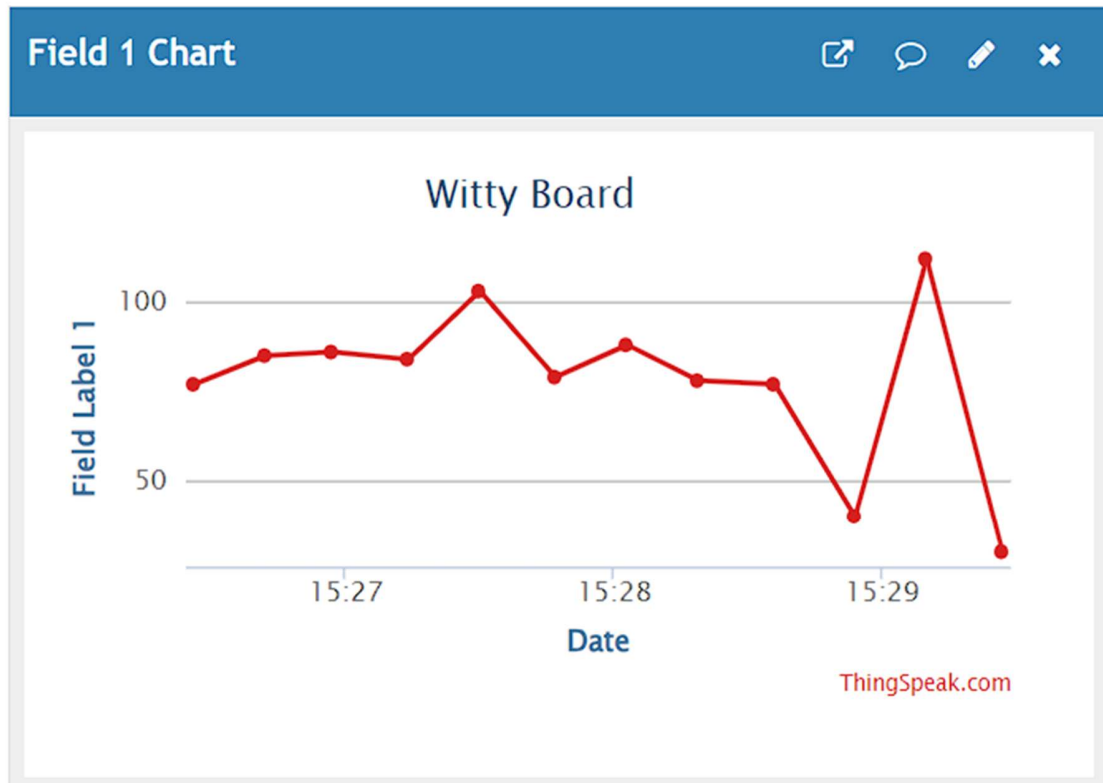
```
Serial.println (value);
```

```
ThingSpeak.writeField(myChannelNumber, 1, value, myWriteAPIKey);
```

```
delay(2000);
```

```
}
```





Output Serial Monitor x

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
```

Ln 25, Col 2 NodeMCU 1.0 (ESP-12E Module) on COM5