

/*

Experiment No. : 14

Statement : To make ESP8266 Witty Cloud Development Board as an access point (AP)/hotspot. To make ESP8266 Witty Cloud Development Board as an access point (AP)/hotspot.

Date of Exp. : xx/xx/yyyy

Author : Mallika Hariharan (A-15)

*/

```
#include <ESP8266WiFi.h>
```

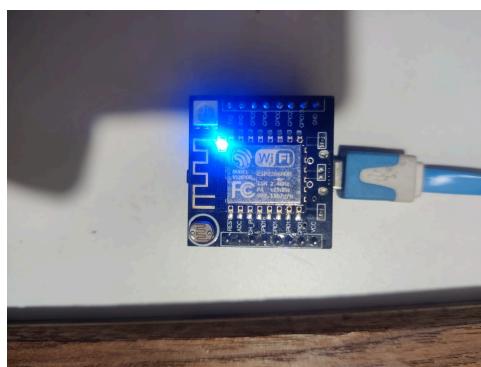
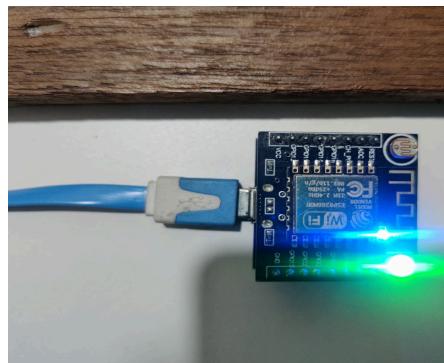
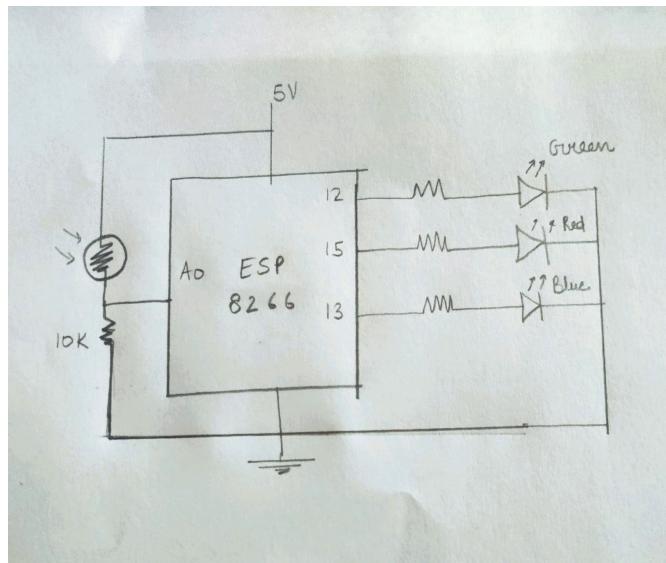
```
#define led 2
#define red 15
#define green 12
#define blue 13
#define ldr A0
```

```
WiFiClient client;
WiFiServer server(80);
```

```
void setup() {
    // put your setup code here, to run once:
    pinMode(led, OUTPUT);
    pinMode(red, OUTPUT);
    pinMode(blue, OUTPUT);
    pinMode(green, OUTPUT);
    Serial.begin(9600);
    WiFi.softAP("esp","esp@8266");
    Serial.println();
    Serial.println("Wifi hotspot started");
    Serial.println(WiFi.softAPIP());
    server.begin();
}
```

```
void loop()
{
    // put your main code here, to run repeatedly:
    client = server.available();

    if(client)
    {
        String request = client.readStringUntil('\n');
        Serial.println(request);
        request.trim();
        if (request == "GET /ledON HTTP/1.1") {
            digitalWrite(green,HIGH);
        }
        if (request == "GET /ledOFF HTTP/1.1")
        {
            digitalWrite(green,LOW);
        }
    }
}
```



```
COM3
@>5to-555^E!A5Ka5
Wifi hotspot started
192.168.4.1
GET / HTTP/1.1
GET / HTTP/1.1
GET / HTTP/1.1
GET / HTTP/1.1
GET / ledON HTTP/1.1
GET / ledOFF HTTP/1.1
```