

/*

Experiment No. : 13

Statement : To use ESP8266 Witty Cloud Development Board as a web server.

Date of Exp. : xx/xx/xxxx

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*/

```
#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(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());

server.begin();

}


void loop() {

  // put your main code here, to run repeatedly:

  client =server.available();

  if(client==1){

    String request=client.readStringUntil('\n');

    Serial.println(request);

    request.trim();

    if(request=="GET /ledON HTTP/1.1")

      digitalWrite(red,HIGH);

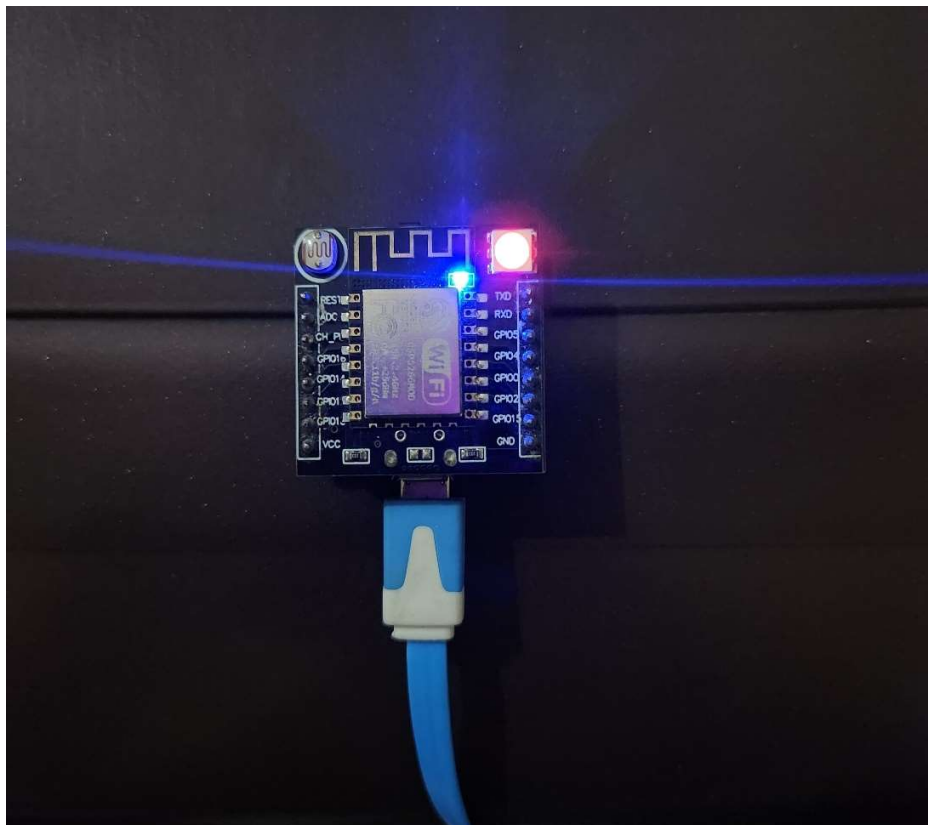
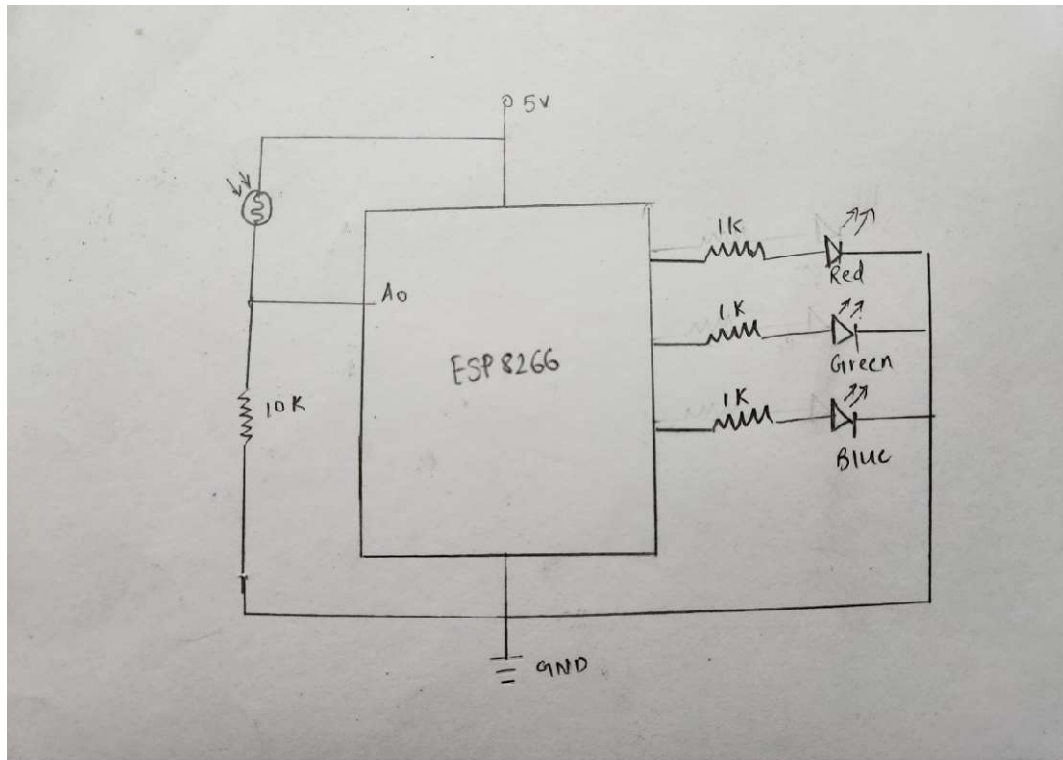
    if(request=="GET /LedOFF HTTP/1.1")

      digitalWrite(red,LOW);

  }

}

```



Output Serial Monitor ✕

Message (Enter to send message to 'NodeMCU 1.0 (ESP-12E Module)' on 'COM5')

```
16:04:48.948 -> GET /http/Hello HTTP/1.1
16:04:50.054 -> GET /http/Hello HTTP/1.1
16:04:55.044 ->
16:04:55.151 -> GET /http/Hello HTTP/1.1
16:05:00.795 -> GET /http/LedON HTTP/1.1
16:05:02.112 -> GET /http/LedON HTTP/1.1
16:05:02.235 -> GET /http/LedON HTTP/1.1
16:05:07.646 -> GET /http/LedON HTTP/1.1
16:05:12.637 ->
```