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Experiment No. : 13

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

Date of Exp. : / /

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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("POCO X2","7890123456");
```

```
    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(green,HIGH);
    if(request=="GET /LedOFF HTTP/1.1")
        digitalWrite(green,LOW);

}

}

/*
```

```
COM5
.....
Witty Board Connected!
192.168.167.151
GET /LedOFF HTTP/1.1
GET /Hello HTTP/1.1
GET /Hello HTTP/1.1
GET /Hello HTTP/1.1
GET /Hello HTTP/1.1

GET /Hello HTTP/1.1
GET /ledON HTTP/1.1
GET /ledON HTTP/1.1
GET /ledON HTTP/1.1
GET /ledON HTTP/1.1
GET /ledON HTTP/1.1

GET /ledON HTTP/1.1

GET /LedOFF HTTP/1.1
```

☒ Autoscroll ☐ Show timestamp Newline 9600 baud Clear output



Green LED Off



Green LED ON