

```
1  #include <ESP8266WiFi.h>
2  #include <PubSubClient.h>
3  const char* ssid = "FITM WiFi";
4  const char* password = "";
5
6  #define mqtt_server "m11.cloudmqtt.com"
7  #define mqtt_port 11915
8  #define mqtt_user "upnkpelr"
9  #define mqtt_password "GHZ0Xc72wZx-"
10 float oldTemp = 0.0;
11 WiFiClient espClient;
12 PubSubClient client(espClient);
13 void setup() {
14     pinMode(D1, OUTPUT);
15     Serial.begin(115200);
16     // lcd.setCursor(2, 0);
17     // lcd.print("nuttapun");
18     delay(10);
19
20     Serial.println();
21     Serial.print("Connecting to ");
22     Serial.println(ssid);
23
24     WiFi.begin(ssid, password);
25
26     while (WiFi.status() != WL_CONNECTED) {
27         delay(500);
28         Serial.print(".");
29     }
30
31     Serial.println("");
32     Serial.println("WiFi connected");
33     Serial.println("IP address: ");
34     Serial.println(WiFi.localIP());
35
36     client.setServer(mqtt_server, mqtt_port);
37     client.setCallback(callback);
38 }
39
40
41
```

```
42 void loop() {
43     if (!client.connected()) {
44         Serial.print("Attempting MQTT connection...");
45         if (client.connect("iotsub", mqtt_user, mqtt_password)) {
46             Serial.println("connected");
47             client.subscribe("/checkPIR");
48         } else {
49             Serial.print("failed, rc=");
50             Serial.print(client.state());
51             Serial.println(" try again in 5 seconds");
52             delay(5000);
53             return;
54         }
55     }
56     client.loop();
57 }
58
59 void callback(char* topic, byte* payload, unsigned int length) {
60     //Serial.print("Message arrived [");
61     //Serial.print(topic);
62     String msg = "";
63     String to = "";
64     int i = 0;
65     while (i < length) msg += (char)payload[i++];
66     // Serial.println(msg);
67     to = topic;
68     // Serial.print(to);
69     if (to == "/checkPIR") {
70         Serial.println(msg);
71         if (msg.toFloat() == 1) {
72             digitalWrite(D1, HIGH);
73         } else {
74             digitalWrite(D1, LOW);
75         }
76     }
77 }
78
```