```
#include "WiFiEsp.h"
#include "SoftwareSerial.h"
#include < PubSubClient.h>
#include <dht.h>
dht DHT;
SoftwareSerial Serial1(6, 7); // RX, TX
#define DHT11_PIN 2
char* wifi_ssid = "Nothing Phone (2a)";
char* wifi_password = "Crash@154";
char* mqtt_server = "mqtt3.thingspeak.com";
int mqtt_port = 1883;
char* mqtt_clientID = "Aw4tOjQrHTYGJyYuCTQCISA";
char* mqtt_username = "Aw4tOjQrHTYGJyYuCTQCISA";
char* mqtt_password = "b9ML6nhMK6bmXTL42SiJ84Wh";
char* mqtt_publish_topic = "channels/2688129/publish";
WiFiEspClient espClient;
PubSubClient client(mqtt_server,mqtt_port,espClient);
int status = WL_IDLE_STATUS; // the Wifi radio's status
void setup_wifi() {
// initialize serial for ESP module
Serial1.begin(115200);
// initialize ESP module
WiFi.init(&Serial1);
 delay(10);
// We start by connecting to a WiFi network
// attempt to connect to WiFi network
while (status != WL_CONNECTED) {
  Serial.print("Attempting to connect to WPA SSID: ");
  Serial.println(wifi_ssid);
  // Connect to WPA/WPA2 network
  status = WiFi.begin(wifi_ssid, wifi_password);
Serial.println("You're connected to the network");
Serial.println("");
Serial.println("WiFi connected");
Serial.println("IP address: ");
Serial.println(WiFi.localIP());
}
void setup() {
Serial.begin(9600);
setup_wifi();
char msg[50];
void loop() {
```

```
static int counter = 0;
int chk = DHT.read11(DHT11_PIN);
 String payload="field1=";
 payload+=DHT.temperature;
 payload+="&field2=";
 payload+=DHT.humidity;
 payload += "\&status = MQTTPUBLISH";
  if (client.connect(mqtt_clientID,mqtt_username,mqtt_password)) {
  Serial.println("Connected to MQTT broker");
  Serial.print("Topic is: ");
  Serial.println(mqtt_publish_topic);
  }
 if (client.connected()){
  Serial.print("Sending payload: ");
  Serial.println(payload);
  if (client.publish(mqtt_publish_topic, (char*) payload.c_str())) {
   Serial.println("Publish ok");
  }
  else {
   Serial.println("Publish failed");
  client.disconnect();
 ++counter;
 delay(2000);
```

OUTPUT





