```
#include <DHT.h>
#include <ESP8266WiFi.h>
int led =D0;
String apiKey = "Q2JFMY858DX2SXS5";
const char *ssid = "esp8266";
const char *pass = "recharge";
const char* server = "api.thingspeak.com";
#define DHTPIN 5
DHT dht(DHTPIN, DHT11);
WiFiClient client;
void setup()
{
 Serial.begin(9600);
 delay(10);
 dht.begin();
 Serial.println("Connecting to ");
 Serial.println(ssid);
 WiFi.begin(ssid, pass);
 while (WiFi.status() != WL_CONNECTED)
 { delay(500);
 Serial.print(".");
 }
 Serial.println("");
 Serial.println("WiFi connected");
 pinMode(D0,OUTPUT);
```

```
}
void loop()
{
 float h = dht.readHumidity();
 float t = dht.readTemperature();
 if (isnan(h) || isnan(t))
 {
 Serial.println("Failed to read from DHT sensor!");
 return;
 }
 if (client.connect(server,80)) // "184.106.153.149" or api.thingspeak.com
 {
 String postStr = apiKey;
 postStr +="&field1=";
 postStr += String(t);
 postStr +="&field2=";
 postStr += String(h);
 postStr += "\r\n\r\n";
 client.print("POST /update HTTP/1.1\n");
 client.print("Host: api.thingspeak.com\n");
 client.print("Connection: close\n");
 client.print("X-THINGSPEAKAPIKEY: "+apiKey+"\n");
 client.print("Content-Type: application/x-www-form-urlencoded\n");
 client.print("Content-Length: ");
 client.print(postStr.length());
```

```
client.print("\n\n");
client.print(postStr);
Serial.print("Temperature: ");
Serial.print(t);
Serial.print(" degrees Celcius, Humidity: ");
Serial.print(h);
Serial.println("%. Send to Thingspeak.");
}
if(t<32)
{
 digitalWrite(D0,LOW);
}
else
{
 digitalWrite(D0,HIGH);
}
client.stop();
Serial.println("Waiting...");
// thingspeak needs minimum 15 sec delay between updates
delay(1000);
}
```