```
#include <DHT.h>  // Including library for dht

#include <ESP8266WiFi.h>
String apiKey = "H38TEGNC0XKW43BB";     //  Enter your Write API key
from ThingSpeak

const char *ssid =  "how2electronics";  // replace with your wifi ssid
and wpa2 key
const char *pass =  "alhabibi";
const char* server = "api.thingspeak.com";

#define DHTPIN 0          //pin where the dht11 is connected
DHT dht(DHTPIN, DHT11);

WiFiClient client;
void setup()
{
      Serial.begin(115200);
      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");
}
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.");
                            }
          client.stop();
          Serial.println("Waiting...");

  // thingspeak needs minimum 15 sec delay between updates
  delay(1000);
}
```