```cpp
#include <WiFi.h>
#include <HTTPClient.h>
#include "DHT.h"

#define DHTPIN 4      // GPIO where the DHT sensor is connected
#define DHTTYPE DHT11  // Change to DHT22 if using DHT22
DHT dht(DHTPIN, DHTTYPE);

// Wi-Fi credentials
const char* ssid = "YOUR_WIFI_SSID";
const char* password = "YOUR_WIFI_PASSWORD";

// ThingSpeak settings
const char* server = "http://api.thingspeak.com/update";
String apiKey = "YOUR_THINGSPEAK_API_KEY";

void setup()
  { Serial.begin(115200);
  dht.begin();

  WiFi.begin(ssid, password);
  Serial.print("Connecting to WiFi");

  while (WiFi.status() != WL_CONNECTED)
    { delay(500);
    Serial.print(".");
  }




  Serial.println(" Connected!");
```

```
}

void loop() {
  if (WiFi.status() == WL_CONNECTED)
    {    float    temp    =
    dht.readTemperature(); float hum =
    dht.readHumidity();

    if (isnan(temp) || isnan(hum))
      { Serial.println("Failed to read from DHT sensor!");
      return;
    }

    Serial.print("Temperature: ");
    Serial.print(temp);
    Serial.print(" °C, Humidity: ");
    Serial.print(hum);
    Serial.println(" %");

    HTTPClient http;
    String url = server + "?api_key=" + apiKey + "&field1=" + String(temp) + "&field2=" + String(hum);

    http.begin(url);
    int httpResponseCode = http.GET();

    if (httpResponseCode > 0) {
      Serial.println("Data sent to ThingSpeak successfully");
    } else {
      Serial.print("Error sending data: ");
      Serial.println(httpResponseCode);
    }

    http.end();
```

```
  } else {
    Serial.println("WiFi Disconnected");

  }


  delay(15000);  // Send data every 15 seconds

}
```

```
    logger.log_struct(log_data)
```