```
#include "DHT.h"
#include <ESP8266WiFi.h>
#include "ThingSpeak.h"

// ThingSpeak Settings
unsigned long myChannelNumber = 3079035;
const char * myWriteAPIKey = "M4RJ438DEVNIVANB";
// WiFi Settings
const char* ssid = “Y22";
const char* password = "12345678";

// DHT Settings
#define DHTPIN D3  // Pin connected to DHT
#define DHTTYPE DHT11   // Change to DHT22 if using it
DHT dht(DHTPIN, DHTTYPE);

WiFiClient client;

void setup() {
 Serial.begin(115200);
 WiFi.begin(ssid, password);
 Serial.print("Connecting to WiFi");
 while (WiFi.status() != WL_CONNECTED) {
  delay(500);
  Serial.print(".");
 }
```

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

  ThingSpeak.begin(client);
  dht.begin();
}

void loop() {
  float h = dht.readHumidity();
  float t = dht.readTemperature(); // Celsius
  // float f = dht.readTemperature(true); // Fahrenheit (optional)

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

  Serial.print("Temperature: ");
  Serial.print(t);
  Serial.print(" °C, Humidity: ");
  Serial.print(h);
  Serial.println(" %");

  // Write to ThingSpeak (field1 = temp, field2 = humidity)
  ThingSpeak.setField(1, t);
  ThingSpeak.setField(2, h);
```

```
  int x = ThingSpeak.writeFields(myChannelNumber, myWriteAPIKey);
  if (x == 200) {
    Serial.println("Data sent to ThingSpeak!");
  } else {
    Serial.println("Error sending data: " + String(x));
  }

  delay(20000); // ThingSpeak requires minimum 15s delay
}
```