```
#include <ESP8266WiFi.h> // ESP8266WiFi.h library
const char* ssid
                   = "REPLACE_WITH_YOUR_SSID";
const char* password = "REPLACE_WITH_YOUR_PASSWORD";
const char* host = "api.thingspeak.com";
const char* writeAPIKey = "069D4U607QBSWZP8";
int temp;
void setup()
// Initialize the sensor:
pinMode(2, OUTPUT);
pinMode(4, INPUT);
Serial.begin(115200); // Initialize serial communication (UART) with baud rate of
1,15,200 bps
delay(1000);
// Connect to WiFi network:
WiFi.begin(ssid, password);
// Wait until Wifi connection is established:
while (WiFi.status() != WL_CONNECTED)
   delay(500);
// The loop function runs over and over again forever:
void loop()
 temp = analogRead(A0); // Read ADC value from A0
 // Make TCP (Transmission Control Protocol) Connections:
 WiFiClient client;
 const int httpPort = 80;
 // Wait until the Client (NodeMCU) is connected to the Thingspeak Server:
 if (!client.connect(host, httpPort))
   return;
 // Request to the server:
client.println(sendThingspeak());
 delay(1000);
```

```
if (temp >= 700)
   digitalWrite(2, HIGH);
 else
 {
   digitalWrite(2, LOW);
 Serial.print(temp);
 Serial.print("\n");
// Send the ADC value from Client (NodeMCU) to Thingspeak Server in HTML Format:
String sendThingspeak()
 String command =
           String("GET ") +
           "/update?key=" +
           writeAPIKey +
           "&field1=" +
           String(temp) + "\r\n" +
           "HTTP/1.1 200 OK\r\n" +
           "Host: " + host + "\r" +
           "Connection: close\r\n\r\n";
         return command;
```