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    This sketch sends a string to a TCP server, and prints a one-line response.

    You must run a TCP server in your local network.

    For example, on Linux you can use this command: nc -v -l 3000

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#include <ESP8266WiFi.h>

#include <ESP8266WiFiMulti.h>

#ifndef STASSID

#define STASSID "Bosila"

#define STAPSK  "bosila000"

#endif

const char\* ssid     = STASSID;

const char\* password = STAPSK;

const char\* host = "172.20.10.2";

const uint16\_t port = 12343;

int outputpin= A0;

ESP8266WiFiMulti WiFiMulti;

void setup() {

  Serial.begin(115200);

  Serial.println("A");

  // We start by connecting to a WiFi network

  WiFi.mode(WIFI\_STA);

  WiFiMulti.addAP(ssid, password);

  Serial.println("B");

  Serial.println();

  Serial.print("Wait for WiFi... ");

  while (WiFiMulti.run() != WL\_CONNECTED) {

    Serial.print("c");

    delay(15000);

  }

  Serial.println("");

  Serial.println("WiFi connected");

  Serial.println("IP address: ");

  Serial.println(WiFi.localIP());

  delay(15000);

}

void loop() {

  Serial.print("connecting to ");

  Serial.print(host);

  Serial.print(':');

  Serial.println(port);

  // Use WiFiClient class to create TCP connections

  WiFiClient client;

  if (!client.connect(host, port)) {

    Serial.println("connection failed");

    Serial.println("wait 5 sec...");

    delay(15000);

    return;

  }

//This will send the request to the server

client.println("hello from ESP8266");

//read back one line from server

Serial.println("receiving from remote server");

String line = client.readStringUntil('\r');

Serial.println(line);

Serial.println("closing connection");

Serial.println("wait 5 sec...");

delay(15000);

while(true){

    int analogValue = analogRead(outputpin);

    float millivolts = (analogValue/1024.0) \* 3300; //3300 is the voltage provided by NodeMCU

    float celsius = millivolts/10;

    Serial.print("in DegreeC=   ");

    Serial.println(celsius);

    client.print(celsius);

    //---------- Here is the calculation for Fahrenheit ----------//

    float fahrenheit = ((celsius \* 9)/5 + 32);

    Serial.print(" in Farenheit=   ");

    Serial.println(fahrenheit);

    delay(15000);

}

}