//Rx D1 TX D2

#include <TinyGPS++.h>

#include <SoftwareSerial.h>

#include <ESP8266WiFi.h>

TinyGPSPlus gps;

SoftwareSerial SerialGPS(4, 5);

const char\* ssid = "Alfiya";

const char\* password = "alfiya123";

float Latitude , Longitude;

int year , month , date, hour , minute , second;

String DateString , TimeString , LatitudeString , LongitudeString;

WiFiServer server(80);

void setup()

{

Serial.begin(9600);

SerialGPS.begin(9600);

Serial.println();

Serial.print("Connecting");

WiFi.begin(ssid, password);

while (WiFi.status() != WL\_CONNECTED)

{

delay(500);

Serial.print(".");

}

Serial.println("");

Serial.println("WiFi connected");

server.begin();

Serial.println("Server started");

Serial.println(WiFi.localIP());

}

void loop()

{

while (SerialGPS.available() > 0)

if (gps.encode(SerialGPS.read()))

{

if (gps.location.isValid())

{

Latitude = gps.location.lat();

LatitudeString = String(Latitude , 6);

Longitude = gps.location.lng();

LongitudeString = String(Longitude , 6);

}

if (gps.date.isValid())

{

DateString = "";

date = gps.date.day();

month = gps.date.month();

year = gps.date.year();

if (date < 10)

DateString = '0';

DateString += String(date);

DateString += " / ";

if (month < 10)

DateString += '0';

DateString += String(month);

DateString += " / ";

if (year < 10)

DateString += '0';

DateString += String(year);

}

if (gps.time.isValid())

{

TimeString = "";

hour = gps.time.hour()+ 5; //adjust UTC

minute = gps.time.minute();

second = gps.time.second();

if (hour < 10)

TimeString = '0';

TimeString += String(hour);

TimeString += " : ";

if (minute < 10)

TimeString += '0';

TimeString += String(minute);

TimeString += " : ";

if (second < 10)

TimeString += '0';

TimeString += String(second);

}

}

WiFiClient client = server.available();

if (!client)

{

return;

}

//Response

String s = "HTTP/1.1 200 OK\r\nContent-Type: text/html\r\n\r\n <!DOCTYPE html> <html> <head> <title>NEO-6M GPS Readings</title> <style>";

s += "table, th, td {border: 1px solid blue;} </style> </head> <body> <h1 style=";

s += "font-size:300%;";

s += " ALIGN=CENTER>NEO-6M GPS Readings</h1>";

s += "<p ALIGN=CENTER style=""font-size:150%;""";

s += "> <b>Location Details</b></p> <table ALIGN=CENTER style=";

s += "width:50%";

s += "> <tr> <th>Latitude</th>";

s += "<td ALIGN=CENTER >";

s += LatitudeString;

s += "</td> </tr> <tr> <th>Longitude</th> <td ALIGN=CENTER >";

s += LongitudeString;

s += "</td> </tr> <tr> <th>Date</th> <td ALIGN=CENTER >";

s += DateString;

s += "</td></tr> <tr> <th>Time</th> <td ALIGN=CENTER >";

s += TimeString;

s += "</td> </tr> </table> ";

if (gps.location.isValid())

{

s += "<p align=center><a style=""color:RED;font-size:125%;"" href=""http://maps.google.com/maps?&z=15&mrt=yp&t=k&q=";

s += LatitudeString;

s += "+";

s += LongitudeString;

s += """ target=""\_top"">Click here</a> to open the location in Google Maps.</p>";

}

s += "</body> </html> \n";

client.print(s);

delay(100);

}