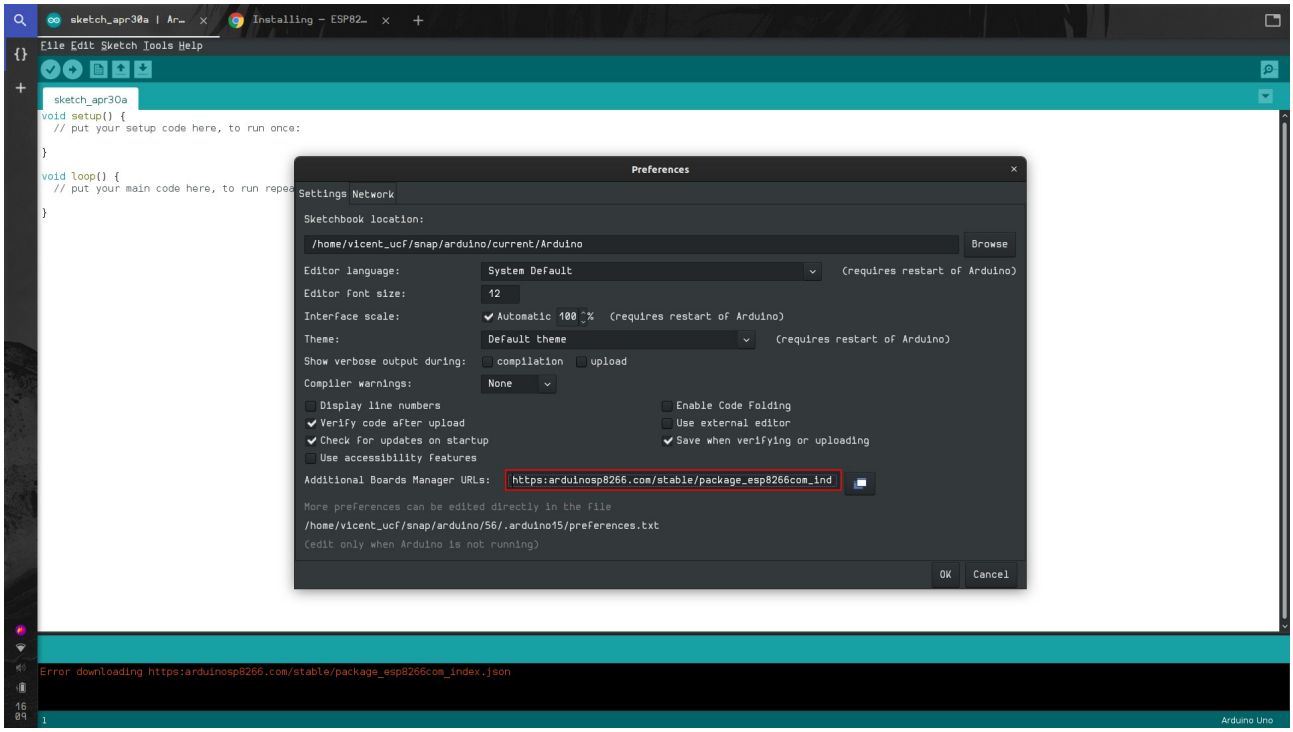
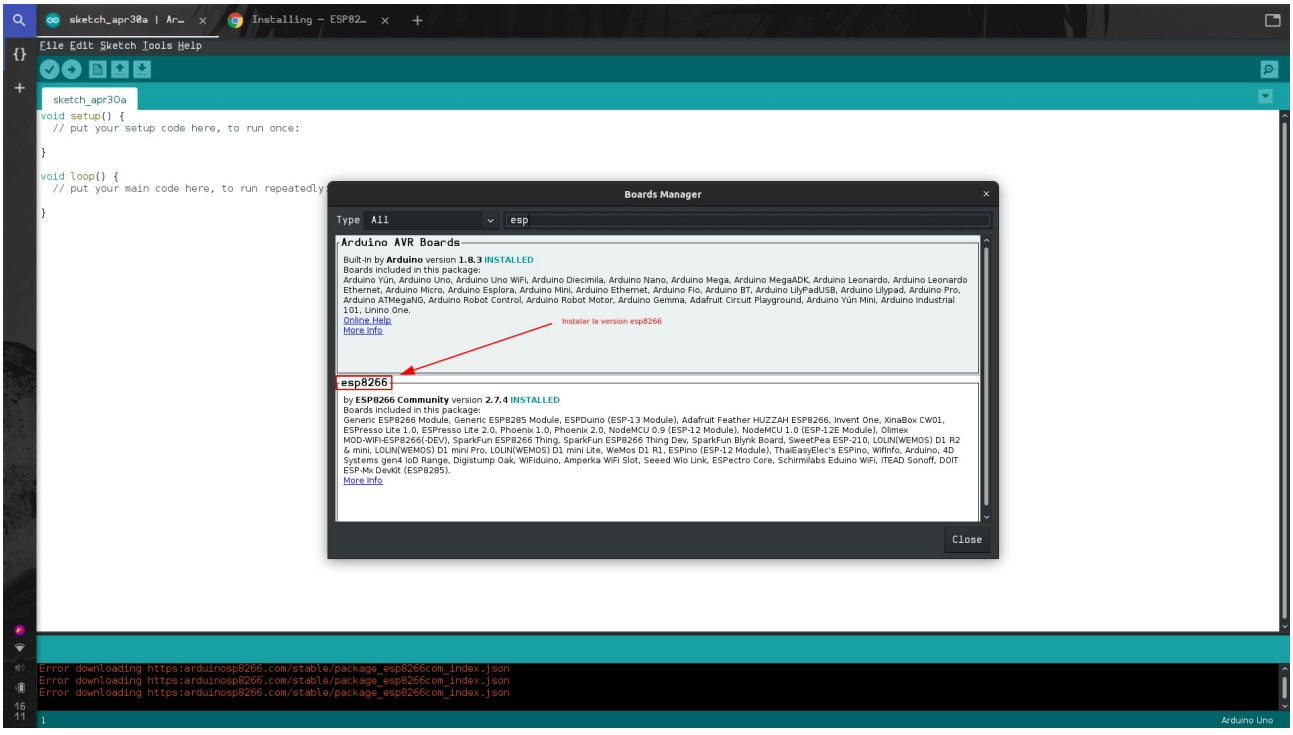
NodeMCU

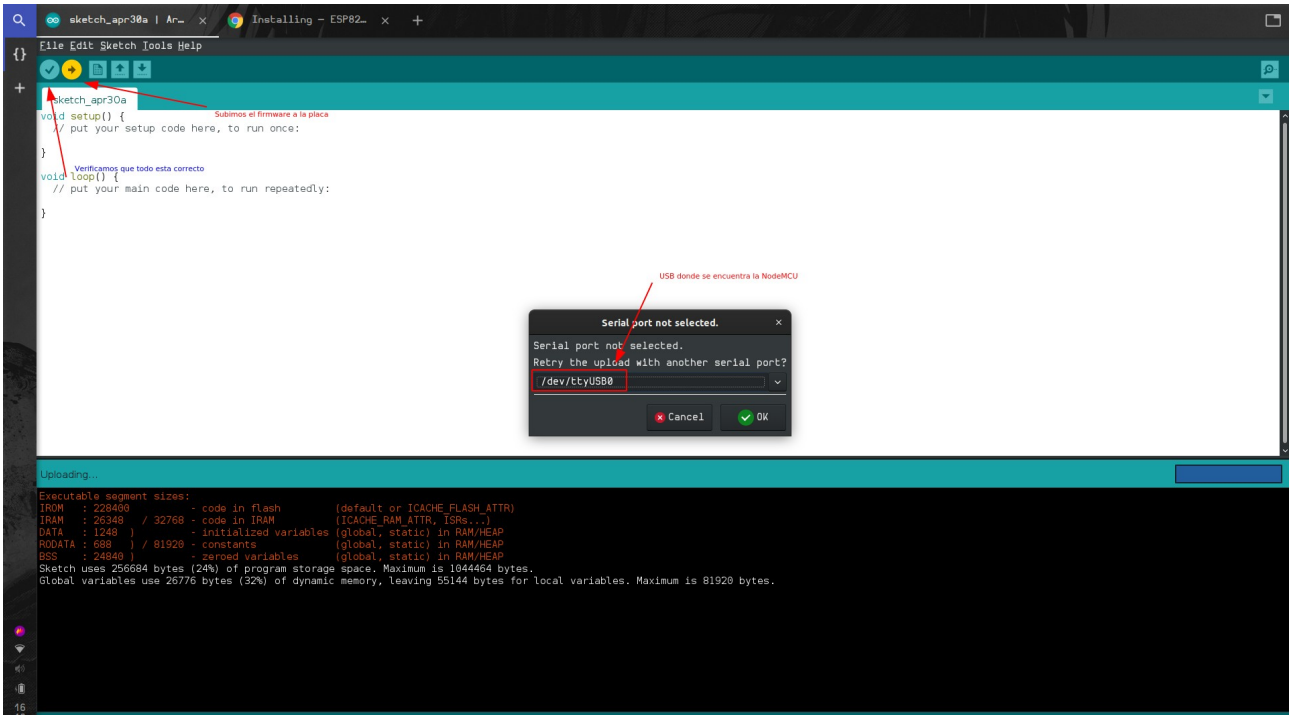
Instalar arduino



Libreria: https:arduinosp8266.com/stable/package_esp8266com_index.json



Tools/Boards/BoardsManager I buscamos esp8266



Comprobamos que todo es te correcto dandole al check y luego subimos los archivos a la placa

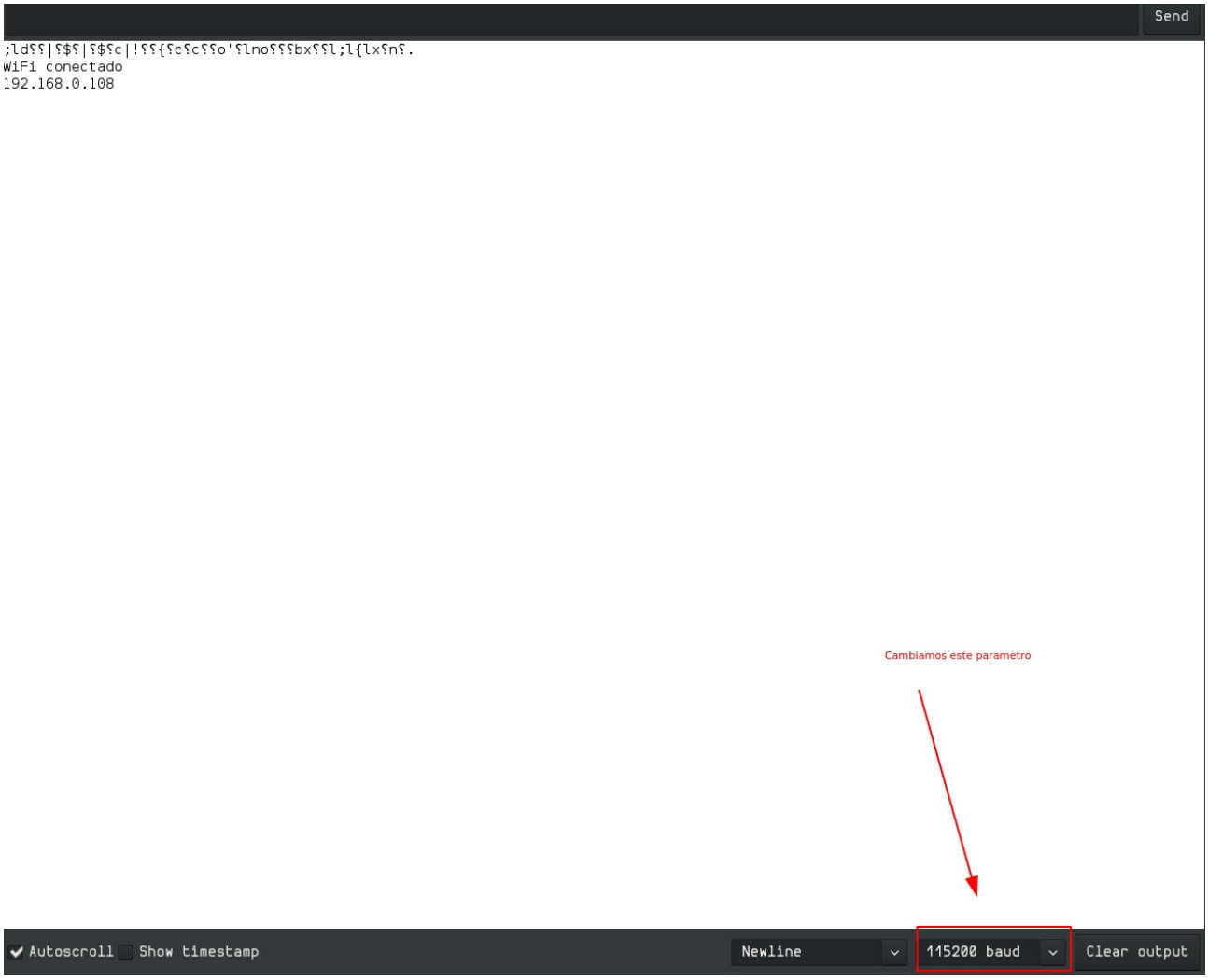
Codigo Fuente:

```
#include <ESP8266WebServer.h>

//---------------------------------------------------------------
ESP8266WebServer server(80);

//-------------------VARIABLES GLOBALES-------------------------
int contconexion = 0;

const char *ssid = "DAMSP";//Nombre de la red del router
const char *password = "DAM2021DAW";//Contrasenya del router

String XML, xmlTemperatura;

unsigned long previousMillis = 0;

//--------CODIGO HTML y JavaScript-------------
String webSite = "<!DOCTYPE html>"
"<html>"
"<head>"
"<meta charset='utf-8' />"
"<title>Tempetatura</title>"
"<script type='text/javascript'>"
"function loadDoc(){"
"  var xhttp = new XMLHttpRequest();"
"  xhttp.onreadystatechange = function() {"
"    if (this.readyState == 4 && this.status == 200) {"
"      myFunction(this);"
```

```
"    }"
"  };"
"  xhttp.open('GET','xml',true);"
"  xhttp.send();"
"  setTimeout('loadDoc()',500);"
"}"
"function myFunction(xml){"
"  var i;"
"  var xmlDoc = xml.responseXML;"
"  var dato =";"
"  dato = xmlDoc.getElementsByTagName('TEMPERATURA')[0].childNodes[0].nodeValue;"
"  document.getElementById('temperatura').innerHTML = dato;"
"}"
"</script>"
"</head>"
"<body onload='loadDoc()'>"
"<a>TEMPERATURA: </a>"
"<a id='temperatura'></a>"
"<a>&degC</a>"
"</body>"
"</html>";

void construirXML(){
  XML="";
  XML+="<TEMPERATURA>";
  XML+=xmlTemperatura;
  XML+="</TEMPERATURA>";
}

void handleWebsite(){
  server.send(200,"text/html",webSite);
}

void handleXML(){
  construirXML();
  server.send(200,"text/xml",XML);
}

//---------------------------SETUP------------------------------
void setup() {

  // Inicia Serial
  Serial.begin(115200);
  Serial.println("");

  // Conexión WIFI
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED and contconexion <50) { //Cuenta hasta 50 si no se
puede conectar lo cancela
    ++contconexion;
    delay(500);
    Serial.print(".");
```

```
  }
  if (contconexion <50) {
     //para usar con ip fija
     IPAddress ip(192,168,69,3);
     IPAddress gateway(192,168,1,1);
     IPAddress subnet(255,255,255,0);
     WiFi.config(ip, gateway, subnet);

     Serial.println("");
     Serial.println("WiFi conectado");
     Serial.println(WiFi.localIP());
  }
  else {
     Serial.println("");
     Serial.println("Error de conexion");
  }

  server.on("/",handleWebsite);
  server.on("/xml",handleXML);
  server.begin();
}

//--------------------------LOOP---------------------------------
void loop() {

  unsigned long currentMillis = millis();

  if (currentMillis - previousMillis >= 1000) { //envia la temperatura cada 1 segundos
    previousMillis = currentMillis;
    int analog = analogRead(17);
    float temp = analog*0.322265625;
    xmlTemperatura = String(temp, 1); //1 decimal
  }

  server.handleClient();
}
```

Luego entramos en Tools/SerialMonitor



Cambiamos el parametro a 115200 baud I subimos el archivo a la MCU esto nos dara una ip a la cual podremos entrar desde nuestro navegador