**Lora Server Code for Arduino:**

//Arduino Raspberry Pi wireless Comunnication through LoRa - SX1278  
//Send 0 to 9 from Arduino through Radio head LoRa without ACK

#include <SPI.h>   
#include <RH\_RF95.h> // RF95 from RadioHead Library

#define RFM95\_CS 10 //CS if Lora connected to pin 10  
#define RFM95\_RST 9 //RST of Lora connected to pin 9  
#define RFM95\_INT 2 //INT of Lora connected to pin 2

|  |  |
| --- | --- |
| D10 | En/Nss CN |
| D11 | MOSI |
| D12 | MISO |
| D13 | SCK |
|  |  |
| D9 | RST |
| D2 | G0/DIO0  **C0** |

// Change to 434.0 or other frequency, must match RX's freq!  
#define RF95\_FREQ 434.0

// Singleton instance of the radio driver  
RH\_RF95 rf95(RFM95\_CS, RFM95\_INT);

void setup()   
{  
   Serial.begin(9600);  
    
// Reset LoRa Module   
  pinMode(RFM95\_RST, OUTPUT);   
  digitalWrite(RFM95\_RST, LOW);  
  delay(10);  
  digitalWrite(RFM95\_RST, HIGH);  
  delay(10);

//Initialize LoRa Module  
  while (!rf95.init()) {  
    Serial.println("LoRa radio init failed");  
    while (1);  
  }

 //Set the default frequency 434.0MHz  
  if (!rf95.setFrequency(RF95\_FREQ)) {  
    Serial.println("setFrequency failed");  
    while (1);  
  }

  rf95.setTxPower(18); //Transmission power of the Lora Module  
}

char value = 48;

|  |  |
| --- | --- |
| ENVIAR | ENVIAR |
| char radiopacket[1] = char(value)};   rf95.send((uint8\_t \*)radiopacket, 1);    delay(1000);   value++;   if (value > '9')   value = 48; | String data = temperature + humidity;     char d[5];   data.toCharArray(d, 5); //String to char array    rf95.send(d, sizeof(d));   rf95.waitPacketSent();  delay(1000); |

OTRA OPCION

Bottom of Form

#include <SPI.h>  
#include <RH\_RF95.h>  
#include "DHT.h"

#define DHTPIN A0     // what pin we're connected to  
#define DHTTYPE DHT11   // DHT type

DHT dht(DHTPIN, DHTTYPE);  
RH\_RF95 rf95;

void setup()   
{  
  Serial.begin(9600);  
  dht.begin();  
  if (!rf95.init())  
    Serial.println("init failed");  
  // Defaults after init are 434.0MHz, 13dBm, Bw = 125 kHz, Cr = 4/5, Sf = 128chips/symbol, CRC on

}

void loop()  
{  
  int temp = dht.readTemperature();  
  int hum = dht.readHumidity();  
  String humidity = String(hum); //int to String  
  String temperature = String(temp);  
  String data = temperature + humidity;  
  Serial.print(data);  
  char d[5];  
  data.toCharArray(d, 5); //String to char array  
  Serial.println("Sending to rf95\_server");  
  rf95.send(d, sizeof(d));  
  rf95.waitPacketSent();  
    
  delay(400);  
}