Write a program to create UDP Server on cloud using Arduino and Respond with humidity data to UDP Client when requested.

Pin connection:

GND-GND

DATA- D5

VCC-VIN

#include <ESP8266WiFi.h>

#include <WiFiUdp.h>

#include "DHT.h"

#define DHTTYPE DHT11

// Set WiFi credentials

#define WIFI\_SSID "333-3"

#define WIFI\_PASS "123456789"

#define UDP\_PORT 4210

DHT dht(D5, DHT11);

// UDP

WiFiUDP UDP;

char packet[255];

char reply[] = "Packet received!";

void setup() {

// Setup serial port

Serial.begin(115200);

Serial.println();

Serial.println(F("DHTxx test!"));

dht.begin();

// Begin WiFi

WiFi.begin(WIFI\_SSID, WIFI\_PASS);

// Connecting to WiFi...

Serial.print("Connecting to ");

Serial.print(WIFI\_SSID);

// Loop continuously while WiFi is not connected

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

{

delay(2000);

Serial.print(".");

}

// Connected to WiFi

Serial.println();

Serial.print("Connected! IP address: ");

Serial.println(WiFi.localIP());

// Begin listening to UDP port

UDP.begin(UDP\_PORT);

Serial.print("Listening on UDP port ");

Serial.println(UDP\_PORT);

}

void loop() {

int h = dht.readHumidity();

//float h = dht.readHumidity();

delay(2000);

// Send return packet

UDP.beginPacket(UDP.remoteIP(), UDP.remotePort());

UDP.write(reply);

//UDP.write(Humidity);

// client.print("humidity :");

// client.println(h);

UDP.endPacket();

Serial.println(F("Humidity:\n "));

Serial.println(h);

}