

Week-9.

Aim: write a program to create TCP server on cloud using Arduino and Respond with humidity data to TCP client when requested.

Software Required

- \* Thingspeak Server
- \* Arduino IDE.

Connections:

+ → 3.3V

- → GND.

Out → D3

Node MCU

DHT22.

Jumper wires  
cable.

Source code.

```
#include "ESP8266WiFi.h"
```

```
#include "DHT.h"
```

```
const char *ssid = "Seuthi";
```

```
const char *password = "Seuthi20";
```

```
WiFiServer WiFiServer(8000);
```

```
DHT dht(D3, DHT22);
```

```
void setup() {
```

```
  Serial.begin(115200);
```

10  
5  
2  
1.  
delay(1000);

WiFi.begin(ssid, Password);

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

delay(1000);

Serial.println("connecting...");

{

Serial.print("connected to WiFi IP:");

Serial.println(WiFi.localIP());

WiFiServer.begin();

DHT.begin();

{

void loop() {

WiFiClient client = WiFiServer.available();

if (client) {

while (client.connected()) {

while (client.available() > 0) {

float h = DHT.readHumidity();

client.print("humidity:");

client.println(h);

~~also~~

Serial.println(h);

delay(2000);

} }

