```
#include <ESP8266WiFi.h> // Wifi Library
#include "DHT.h" // Temperature and Humidity Sensor Library
#define DHTPIN D5 // what digital pin we're connected to
#define DHTTYPE DHT22 // DHT 22 (AM2302), AM2321
DHT dht(DHTPIN, DHTTYPE); // Initializing the DTH22 Sensor with the PIN
No
int sensor pin = A0; //PIN for Moisture Sensor
int moisture ; //variable to store the soil moisture value
bool connected = false;
const char* ssid = "Vodafone-33498108"; // SSID of the Network
const char* password = "vl2z5liskvbikl8"; // Password for the network
const char* host = "192.168.1.7"; // IP of the system where we will
send our data
   const int httpPort = 4445;
void setup() {
 Serial.begin(115200); // set baud rate
 dht.begin(); //initialize dht22 sensor module
//Connecting with Network...
Serial.println();
Serial.println();
 Serial.print("Connecting to ");
Serial.println(ssid);
WiFi.mode(WIFI STA);
WiFi.begin (ssid, password);
 while (WiFi.status() != WL CONNECTED) {
   delay(500);
  Serial.print(".");
 }
Serial.println("");
Serial.println("WiFi connected");
 Serial.println("IP address: ");
Serial.println(WiFi.localIP());
```

```
void loop() {
 delay(5000);
///////////////////////////Reading
//Reading Temperature and Humidity
 String sensdata = "";
 float humid = dht.readHumidity();
 float tc = dht.readTemperature(); // Read temperature as Celsius
(the default)
 float tf = dht.readTemperature(true); // Read temperature as
Fahrenheit (isFahrenheit = true)
 // Check if any reads failed and exit early (to try again).
 if (isnan(humid) || isnan(tc) || isnan(tf)) {
  Serial.println("Failed to read from DHT sensor!");
   return;
 //Reading Soil Moisture Sensor Data
moisture= analogRead (sensor pin);
moisture = map (moisture, 550, 0, 0, 100);
sensdata = sensdata+humid+"\t"+tc+"\t"+tf+"\t"+moisture; //Creating
a String for sensor reading
//////////////////////////////Sending The values to
Serial.print("connecting to ");
  Serial.println(host);
  WiFiClient client;
    if (!client.connect(host, httpPort)) {
     Serial.println("data server connection failed");
      return;
     }else{
```

```
Serial.println("data server connected");
    connected = true;
}
Serial.println("Sending sensor reading: "+sensdata);
client.print(sensdata);
}
```