NODE MCU

```
#include <ESP8266WiFi.h>
#include<WiFiClient.h>
#include<ESP8266HTTPClient.h>

//String apiKey = "1KS2P1K6PABSHZ6F";

String URL =
"http://api.thingspeak.com/update?api_key=1KS2P1K6PABSHZ6F&field1=";
const char *ssid =  "moto e(7) plus 7894";
const char *pass =  "11111111";

//const char* server = "api.thingspeak.com";

WiFiClient client;
HTTPClient http;
void setup()
{
    Serial.begin(115200);
    delay(10);

    WiFi.disconnect();

    Serial.println("Connecting to ");
    Serial.println(ssid);
```

```
      WiFi.begin(ssid, pass);

     while (WiFi.status() != WL_CONNECTED)
    {
          delay(500);
          Serial.print(".");
    }
     Serial.println("");
     Serial.println("WiFi connected");

}

void loop()
{

     float temp , tds , tur , ph ;
     String data ;

     if(Serial.available()>0){
     data = Serial.readStringUntil('\n');
     Serial.println(data);

     int c = data.indexOf(',');
     int d = data.indexOf(';');
```

```
    int e = data.indexOf(':');

    if(c!=-1){
      temp = data.substring(0,c).toFloat();
      }
    if(d!=-1){
      tds = data.substring(c+1,d).toFloat();
      }
    if(e!=-1){
      tur = data.substring(d+1,e).toFloat();
      ph = data.substring(e+1).toFloat();
      }
    }


    sendData(temp , tds , tur , ph);
}

void sendData(float temp , float tds , float tur , float ph){

  String newUrl=URL+String(temp) + "&field2=" + String(tds) + "&field3=" +
String(tur)  + "&field4=" + String(ph);
  http.begin(client,newUrl);
  int responsecode=http.GET();
  String data=http.getString();
  Serial.println(data);
  http.end();
```

}