实验一：LinkLab“串口打印”实验题

REQUIRE("Arduino MEGA 2560");

void setup()

{

// Initialize the serial and set the data rate

TL\_Serial.begin(9600);

int count = 4;

while (count--) {

TL\_Serial.println("cfb54ec022674c33bf3eb072771f0d18");

TL\_Time.delayMillis(4000);

}

TL\_Serial.println("end");

}

void loop(){

}

实验二：LinkLab“MQTT通信”实验题

TL\_MQTT mqtt;

int port = 12353;

char servername[] = "tinylink.cn";

char clientname[] = "zztest";

char topicName[] = "judge/0a4c";

char username[] = "zztest";

char password[] = "zztest";

void setup() {

TL\_Serial.begin(9600);

TL\_WiFi.init();

TL\_WiFi.join("AZFT","AZFT123456");

mqtt = TL\_WiFi.fetchMQTT();

mqtt.connect(servername, port, clientname, username, password);

//TL\_Serial.println("begin");

for(int i = 0; i < 2; i++){

TL\_Humidity.read();

String data = String("{") + "\"humidity\":" + TL\_Humidity.data() + String("}");

char buf[100];

data.toCharArray(buf, 100);

TL\_Serial.print("Humidity data is ");

TL\_Serial.println(TL\_Humidity.data());

int res = mqtt.publish(topicName, buf, strlen(buf));

TL\_Time.delayMillis(2000);

}

TL\_Serial.println("end");

}

void loop() {

}

实验三：阿里云IoT Studio物模型及服务编排入门

TL\_MQTT mqtt;

int port = 1883;

char serverName[] = "a1GlOZd7pAS.iot-as-mqtt.cn-shanghai.aliyuncs.com";

char clientName[] = "FESA234FBDS24|securemode=3,signmethod=hmacsha1,timestamp=789|";

char topicName[] = "/sys/a1GlOZd7pAS/VaIaHqygLhixeIEfzLuh/thing/event/property/post";

char userName[] = "VaIaHqygLhixeIEfzLuh&a1GlOZd7pAS";

char password[] = "b1d22e159500d36eb0fb81c3a2375e0bff10070e";

char SSID[] = "AZFT";

char Pass[] = "AZFT123456";

void setup() {

TL\_WiFi.init();

bool b = TL\_WiFi.join(SSID,Pass);

mqtt = TL\_WiFi.fetchMQTT();

int a = mqtt.connect(serverName, port, clientName, userName, password);

TL\_Serial.begin(9600);

TL\_Serial.println(a);

TL\_Light.read();

TL\_Humidity.read();

TL\_Temperature.read();

String data = "{\"id\" : \"123\", \"version\":\"1.0\", \"params\" : {";

data += "\"CurrentTemperature\":";

data += TL\_Temperature.data();

data += ", \"CurrentHumidity\":";

data += TL\_Humidity.data();

data += ", \"mlux\":";

data += TL\_Light.data();

data += ", \"key\":";

data += "\"MTYsMTExLDFiZTk1MjQy\"";

data += "},\"method\":\"thing.event.property.post\"}";

TL\_Serial.println(data);

char buf[500];

data.toCharArray( buf, 500 );

int res = mqtt.publish(topicName, buf, strlen(buf),0);

TL\_Serial.println(res);

TL\_Time.delayMillis(1000);

TL\_Serial.println("end");

}

void loop() {

}