

電通二乙微處理器實驗 實驗結報

實驗名稱	MCS Cloud		
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1. 實驗目的

練習使用 MCS Cloud 的相關功能

2. 實驗步驟

1. 到 MCS 註冊帳號
2. 建立網頁應用程式 (web application)
3. 透過 MCS REST API 進行溝通

3. 程式碼

```
#include <WiFi.h>
#include "MCS.h"

char _lwifi_ssid[] = "home NO.17 1F";
char _lwifi_pass[] = "034921540";
MCSDevice mcs("DDoGeTuM", "WT4HYij392dHfwqO");

MCSControllerOnOff led("LED_control");

void setup()
{
    Serial.begin(9600);

    Serial.println("Connect to Wifi");
    while (WiFi.begin(_lwifi_ssid, _lwifi_pass) != WL_CONNECTED) {
        Serial.println("Wifi Reconnecting..");
        delay(1000);
    }

    Serial.println("Connect to MCS...");
    while (!mcs.connected()) {
        Serial.println("MCS Reconnecting..");
        mcs.connect();
    }
    Serial.println("MCS Connected!");
    mcs.addChannel(led);

    pinMode(7, OUTPUT);
}
```

```
void loop()
{
  while (!mcs.connected()) {
    mcs.connect();
    if (mcs.connected()) {
      Serial.println("MCS Reconnect");
    }
  }
  mcs.process(1000);

  if (led.value() == 1) {
    digitalWrite(7, HIGH);

  } else {
    digitalWrite(7, LOW);

  }

  delay(200);
}
```