Shop Internet of Things





ພາກປະຕິບັດ Practical



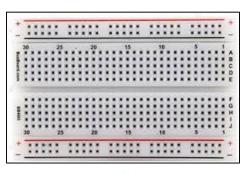
ສະຖານທີ່ ພາກວິຊາ ວິສະວະກຳຄອມພິວເຕີ ແລະ ເຕັກໂນໂລຊີຂໍ້ມູນຂ່າວສານ

Lab 1















Code 1 (1)





```
#define BLYNK_PRINT Serial
```

```
#include <WiFi.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>
```

```
char auth[] = "YourAuthToken";
char ssid[] = "CEIT-IoT";
char pass[] = "12345678";
```

Code 1 (2)



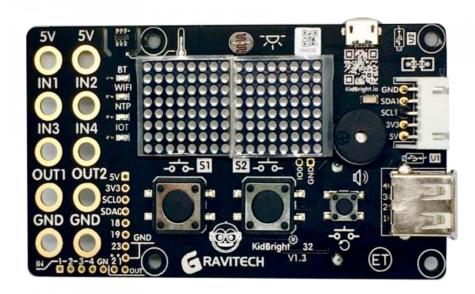


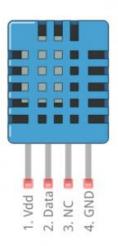
```
void setup() {
 Serial.begin(9600);
 Blynk.begin(auth, ssid, pass);
void loop() {
    Blynk.run();
```

Lab 2











Code 2 (1)





```
#define BLYNK_PRINT Serial
#include <Wire.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>
char auth[] = "YourAuthToken";
char ssid[] = "CEIT-IoT";
char pass[] = "12345678";
#define LM73_ADDR 0x4D
double temp=0;
```

Code 2 (2)





```
float readTemperature() {
 Wire1.beginTransmission(LM73_ADDR);
 Wire1.write(0x00); // Temperature Data Register
 Wire1.endTransmission();
 uint8_t count = Wire1.requestFrom(LM73_ADDR, 2);
 float temp = 0.0;
 if (count == 2) {
  byte buff[2];
  buff[0] = Wire1.read();
  buff[1] = Wire1.read():
  temp += (int)(buff[0]<<1);
  if (buff[1]&0b10000000) temp += 1.0;
  if (buff[1]&0b01000000) temp += 0.5;
  if (buff[1]&0b00100000) temp += 0.25;
  if (buff[0]&0b10000000) temp *= -1.0;
 return temp;
```

Code 2 (3)





```
void setup() {
 Serial.begin(9600);
 Wire1.begin(4, 5);
 Blynk.begin(auth, ssid, pass);
void loop() {
   Blynk.run();
   temp = readTemperature();
   Serial.print("Temp:");Serial.println(temp);
   Blynk.virtualWrite(V1, temp);
   delay(2000);
   if (temp > 28)
     Blynk.notify("Temperature over 28");
```