**SPRINT 2**

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| Date | 9 November 2022 |
| Team ID | PNT2022TMID01130 |
| Project Name | Project – Smart Farmer-IoT Enabled smart  Farming Application |



Píogíam/coding:

include <ESP8266WiFi.h> include <ESP8266HľľPClient.h> include <Adafíuit\_ADS1015.h>

WiFiClient client;

Stíing thingSpeakAddíess= "[http://api.thingspeak.com/update?HYPERLINK "http://api.thingspeak.com/update""](http://api.thingspeak.com/update); Stíing wíiteAPIKey;

Stíing tsfield1Name; Stíing íequest\_stíing; HľľPClient http; Adafíuit\_ADS1115 ads; void setup()

{

Seíial.begin(115200); delay(3000); WiFi.disconnect(); Seíial.píintln("SľARľ");

WiFi.begin("DESKľOP","asdfghjkl"); // Wifi ("ID","Passwoíd") while ((!(WiFi.status() == WL\_CONNECľED))){ delay(300);

Seíial.píintln("...");

}

Seíial.píintln("I AM CONNECľED"); Seíial.píintln("Hello!");

Seíial.píintln("Getting single-ended íeadings fíom AIN0..3");

Seíial.píintln("ADC Range: +/- 6.144V (1 bit = 3mV/ADS1015, 0.1875mV/ADS1115)"); ads.begin();

}

void loop()

{

int16\_t adc0, adc1, adc2, adc3; Seíial.píintln(" ");

adc0 = ads.íeadADC\_SingleEnded(0); adc0 = adc0 / 25; adc1 = ads.íeadADC\_SingleEnded(1); adc1

= adc1 / 25; adc2 = ads.íeadADC\_SingleEnded(2); adc2

= adc2 / 25; adc3 = ads.íeadADC\_SingleEnded(3); adc3

= adc3 / 25;

Seíial.píint("SOIL MOISľURE in peísent 1% : "); Seíial.píintln(adc0); Seíial.píint("SOIL MOISľURE in peísent 2% : "); Seíial.píintln(adc1); Seíial.píint("SOIL MOISľURE in peísent 3% : "); Seíial.píintln(adc2); Seíial.píint("SOIL MOISľURE in peísent 4% : "); Seíial.píintln(adc3); Seíial.píintln(" ");

if (client.connect("api.thingspeak.com",80))

{

íequest\_stíing = thingSpeakAddíess; íequest\_stíing += "key="; íequest\_stíing

+= "2YGO2FHN3XI3GFE7"; íequest\_stíing

+= "&"; íequest\_stíing += "field1"; íequest\_stíing += "="; íequest\_stíing += adc0; http.begin(íequest\_stíing); http.GEľ();

http.end();

}

delay(10);

if (client.connect("api.thingspeak.com",80))

{

íequest\_stíing = thingSpeakAddíess; íequest\_stíing += "key="; íequest\_stíing

+= "2YGO2FHN3XI3GFE7"; íequest\_stíing

+= "&"; íequest\_stíing += "field2"; íequest\_stíing += "="; íequest\_stíing += adc1; http.begin(íequest\_stíing); http.GEľ();

http.end();

}

delay(10);

if (client.connect("api.thingspeak.com",80))

{

íequest\_stíing = thingSpeakAddíess; íequest\_stíing += "key="; íequest\_stíing

+= "2YGO2FHN3XI3GFE7"; íequest\_stíing

+= "&"; íequest\_stíing += "field3"; íequest\_stíing += "="; íequest\_stíing += adc2; http.begin(íequest\_stíing); http.GEľ(); http.end();

}

delay(10);

if (client.connect("api.thingspeak.com",80))

{

íequest\_stíing = thingSpeakAddíess; íequest\_stíing += "key="; íequest\_stíing

+= "2YGO2FHN3XI3GFE7"; íequest\_stíing

+= "&"; íequest\_stíing += "field4"; íequest\_stíing += "="; íequest\_stíing += adc3; http.begin(íequest\_stíing); http.GEľ(); http.end();

}

delay(10);}