#include "UbidotsMicroESP8266.h"  
  
#define TOKEN  "A1E-hCIlTefy0McbIcuA2mL4N0tWP14mUd"  // Put here your Ubidots TOKEN  
#define ID\_1 "5d538a65c03f97552fb6f9c7" // Put your variable ID here  
//#define ID\_2 "Your\_variable\_ID\_here" // Put your variable ID here  
#define WIFISSID "OnePlus 6" // Put here your Wi-Fi SSID  
#define PASSWORD "qwertyuiop" // Put here your Wi-Fi password  
  
Ubidots client(TOKEN);  
float moisturecontent;  
  
unsigned long interval = 10000;  
unsigned long previousMillis = 0;  
unsigned long interval1 = 1000;  
unsigned long previousMillis1 = 0;  
void setup(){  
    pinMode(D1, OUTPUT);  
    pinMode(D2, OUTPUT);  
    Serial.begin(115200);  
    client.wifiConnection(WIFISSID, PASSWORD);  
    //client.setDebug(true); // Uncomment this line to set DEBUG on  
}  
  
void loop(){  
   float a= analogRead(A0);  
    //float value2 = analogRead(2)  
      unsigned long currentMillis = millis(); // grab current time  
    client.add(ID\_1, a);  
    //client.add(ID\_2, value2);  
    Serial.println(a);  
    client.sendAll(false);  
    delay(3000);  
     
     moisturecontent =analogRead(A0);  
  
  if ((unsigned long)(currentMillis - previousMillis1) >= interval1) {  
    Serial.print("Soil Moisture is  = ");  
    Serial.print(moisturecontent);  
  
  }  
  
if (moisturecontent > 768) {  
   digitalWrite(D1, HIGH);   // turn the LED on (HIGH is the voltage level)  
  delay(500);                       // wait for a second  
  digitalWrite(D1, LOW);    // turn the LED off by making the voltage LOW  
  delay(500);    
  digitalWrite(D2, HIGH);   // turn the LED on (HIGH is the voltage level)  
  delay(500);                       // wait for a second  
  digitalWrite(D2, LOW);    // turn the LED off by making the voltage LOW  
  delay(500);        
   
  
}  
if (moisturecontent < 700){  
 digitalWrite(D1,LOW);  
  delay(1000);    
   
}  
}