#include <ESP8266WiFi.h>

#include <Adafruit\_MQTT\_Client.h>

#define wifi "Bleh bleh bluh bluh"

#define password "12345678"

#define server "io.adafruit.com"

#define port 1883

#define username "mpokuri74"

#define key "1e34b546c35e46559cbb4ecf0e1aba9e"

int TRIGGER = 5;

int ECHO = 4;

// NodeMCU Pin D1 > TRIGGER | Pin D2 > ECHO

long duration;

int distance;

WiFiClient esp;

Adafruit\_MQTT\_Client mqtt(&esp,server,port,username,key);

Adafruit\_MQTT\_Publish feed = Adafruit\_MQTT\_Publish(&mqtt,username"/feeds/sdb");

void setup()

{

Serial.begin (115200);

pinMode(TRIGGER, OUTPUT);

pinMode(ECHO, INPUT);

Serial.println("Adafruit MQTT demo");

Serial.print("Connecting to ");

Serial.println(wifi);

WiFi.begin(wifi,password);

while(WiFi.status()!=WL\_CONNECTED)

{

delay(500);

Serial.print(".");

}

Serial.println("WiFi connected");

Serial.println("IP Address: ");

Serial.println(WiFi.localIP());

Serial.print("Connecting to MQTT");

while(mqtt.connect())

{

Serial.print(".");

}

}

void loop()

{

if(mqtt.connected())

{

digitalWrite(TRIGGER, HIGH);

delayMicroseconds(10);

digitalWrite(TRIGGER, LOW);

duration = pulseIn(ECHO, HIGH);

distance = (duration/2) / 29.1;

Serial.print(distance);

Serial.println(" cm");

if(feed.publish(distance))

{

Serial.println("Success");

}

else

{

Serial.println("Fail!");

}

delay(800);

}

}