#include <ThingSpeak.h>

#include <ESP8266WiFi.h>

// Cloud Parameter

unsigned long counterChannelNumber = 2278824;

const char \* myCounterReadAPIKey = "AKXRMG1YLOF4CBUB";

const int FieldNumber1 = 1;

String presentStr = "";

int payload;

// WiFi parameters

const char\* ssid = "Vijay";

const char\* password = "9361476001";

void setup() {

pinMode(D0,OUTPUT);

pinMode(D1,OUTPUT);

pinMode(D2,OUTPUT);

pinMode(D3,OUTPUT);

pinMode(D4,OUTPUT);

pinMode(D5,OUTPUT);

Serial.begin(115200);

Serial.print("Connecting to ");

Serial.println(ssid);

WiFi.begin(ssid, password);

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

// delay(500);

// Serial.print(".");

// }

delay(3000);

Serial.println("WiFi connected");

Serial.println("IP address: ");

Serial.println(WiFi.localIP());

ThingSpeak.begin(client);

}

void loop() {

presentStr = ThingSpeak.readStringField(counterChannelNumber, FieldNumber1, myCounterReadAPIKey);

if(presentStr == "Forward"){

payload=1;

} else if(presentStr=="Left"){

payload=2;

} else if(presentStr=="Right"){

payload=3;

} else if(presentStr=="Clean"){

payload ==4;

} else if(presentStr=="Auto"){

payload =5;

} else if(presentStr=="Stop" || presentStr=="Finish"){

payload =6;

}

if(payload == "1") // if data == 1 -> Forward

{

digitalWrite(D0,HIGH);

digitalWrite(D1,LOW);

digitalWrite(D2,LOW);

digitalWrite(D3,LOW);

digitalWrite(D4,LOW);

digitalWrite(D5,LOW);

}

else if (payload == "2") // if data == 2-> Left

{

digitalWrite(D0,LOW);

digitalWrite(D1,HIGH);

digitalWrite(D2,LOW);

digitalWrite(D3,LOW);

digitalWrite(D4,LOW);

digitalWrite(D5,LOW);

}

else if (payload == "3") // if data == 3 -> Right {

digitalWrite(D0,LOW);

digitalWrite(D1,LOW);

digitalWrite(D2,HIGH);

digitalWrite(D3,LOW);

digitalWrite(D4,LOW);

digitalWrite(D5,LOW);

}

else if (payload == "4") // if data == 4 -> Clean {

digitalWrite(D0,LOW);

digitalWrite(D1,LOW);

digitalWrite(D2,LOW);

digitalWrite(D3,HIGH);

digitalWrite(D4,LOW);

digitalWrite(D5,LOW);

}

else if (payload == "5") // if data == 0 -> Auto

{

digitalWrite(D0,LOW);

digitalWrite(D1,LOW);

digitalWrite(D2,LOW);

digitalWrite(D3,LOW);

digitalWrite(D4,HIGH);

digitalWrite(D5,LOW);

}

else if (payload == "6") // if data == 0 -> Stop/Finish {

digitalWrite(D0,LOW);

digitalWrite(D1,LOW);

digitalWrite(D2,LOW);

digitalWrite(D3,LOW);

digitalWrite(D4,LOW);

digitalWrite(D5,HIGH);

}

delay(500);

}