#include <Servo.h>

#define BLYNK\_TEMPLATE\_ID "TMPLd\_pjQSRH"

#define BLYNK\_DEVICE\_NAME "Quickstart Device"

#define BLYNK\_AUTH\_TOKEN "9f22723e9a02409db2a8562577df1d43"

#define BLYNK\_PRINT Serial

#include <SPI.h>

#include <WiFi101.h>

#include <BlynkSimpleWiFiShield101.h>

Servo DO,RE,MI,FA,SO,LA,TI,DA;

int pos = 0;

int var8 = 0;

int var9 = 0;

int var10 = 0;

int var11 = 0;

int var12 = 0;

int var13 = 0;

int var14 = 0;

int varA1 = 0;

char auth[] = BLYNK\_AUTH\_TOKEN;

char ssid[] = "MW45V2\_9F29";

char pass[] = "6L7dx4d7Mrg6";

BlynkTimer timer;

BLYNK\_WRITE(V0)

{

int value = param.asInt();

Blynk.virtualWrite(V1, value);

}

void myTimerEvent()

{

Blynk.virtualWrite(V2, millis() / 1000);

}

void setup()

{

pinMode(8, INPUT);

pinMode(9, INPUT);

pinMode(10, INPUT);

pinMode(11, INPUT);

pinMode(12, INPUT);

pinMode(13, INPUT);

pinMode(14, INPUT);

pinMode(A1, INPUT);

Serial.begin(115200);

Blynk.begin(auth, ssid, pass, "blynk2.croatianmakers.hr", 8080);

timer.setInterval(1000L, myTimerEvent);

DO.attach(0);

RE.attach(1);

MI.attach(2);

FA.attach(3);

SO.attach(4);

LA.attach(5);

TI.attach(6);

DA.attach(7);

DO.write(0);

RE.write(0);

MI.write(0);

FA.write(0);

SO.write(0);

LA.write(0);

TI.write(0);

DA.write(0);

}

void loop()

{

Blynk.run();

timer.run();

var8 = digitalRead(8);

if (var8 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

DO.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

DO.write(pos);

delay(5);

}

delay(150);

}

var9 = digitalRead(9);

if (var9 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

RE.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

RE.write(pos);

delay(5);

}

delay(150);

}

var10 = digitalRead(10);

if (var10 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

MI.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

MI.write(pos);

delay(5);

}

delay(150);

}

var11 = digitalRead(11);

if (var11 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

FA.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

FA.write(pos);

delay(5);

}

delay(150);

}

var12 = digitalRead(12);

if (var12 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

SO.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

SO.write(pos);

delay(5);

}

delay(150);

}

var13 = digitalRead(13);

if (var13 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

LA.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

LA.write(pos);

delay(5);

}

delay(150);

}

var14 = digitalRead(14);

if (var14 == 1)

{

for (pos = 0; pos <= 60; pos += 1) {

TI.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

TI.write(pos);

delay(5);

}

delay(150);

}

varA1 = analogRead(A1);

if (varA1 >= 800)

{

for (pos = 0; pos <= 60; pos += 1) {

DA.write(pos);

delay(5);

}

delay(150);

for (pos = 60; pos >= 0; pos -= 1) {

DA.write(pos);

delay(5);

}

delay(150);

}

}