#define BLYNK\_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#include <SoftwareSerial.h>

#include <SimpleTimer.h>

int pinValue1;

int pinValue2;

int pinValue3;

int pinValue4;

int pinValue5;

int pinValue6;

String v2arduino; // values to arduino

char auth[] = "3875b24ac2a64289be4190aa1995d3a2";

//char auth[] = "9071754c22504677be807fc9dd146ea5";

// Your WiFi credentials.

// Set password to "" for open networks.

char ssid[] = "vivo Y21L";

char pass[] = "123456789";

SimpleTimer timer;

String myString; // complete message from arduino, which consistors of snesors data

char rdata; // received characters

int firstVal, secondVal,thirdVal,fourthVal,fifthVal,sixthVal; // sensors

// This function sends Arduino's up time every second to Virtual Pin (1).

// In the app, Widget's reading frequency should be set to PUSH. This means

// that you define how often to send data to Blynk App.

void myTimerEvent()

{

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V1, millis() / 1000);

}

void setup()

{

// Debug console

Serial.begin(9600);

Blynk.begin(auth, ssid, pass);

/\*

timer.setInterval(1000L,sensorvalue1);

timer.setInterval(1000L,sensorvalue2);

timer.setInterval(1000L,sensorvalue3);

timer.setInterval(1000L,sensorvalue4);

timer.setInterval(1000L,sensorvalue5);

timer.setInterval(1000L,sensorvalue6);

\*/

}

void loop()

{

if (Serial.available() == 0 )

{

Blynk.run();

timer.run(); // Initiates BlynkTimer

toarduino();

Serial.println();

}

if (Serial.available() > 0 )

{

rdata = Serial.read();

myString = myString+ rdata;

// Serial.print(rdata);

if( rdata == '\n')

{

// new code

String l = getValue(myString, ',', 0);

String m = getValue(myString, ',', 1);

String n = getValue(myString, ',', 2);

String o = getValue(myString, ',', 3);

String p = getValue(myString, ',', 4);

String q = getValue(myString, ',', 5);

firstVal = l.toInt();

secondVal = m.toInt();

thirdVal = n.toInt();

fourthVal = o.toInt();

fifthVal = p.toInt();

sixthVal = q.toInt();

myString = "";

// end new code

}

}

}

/\*

void sensorvalue1()

{

int sdata = firstVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V10, sdata);

}

void sensorvalue2()

{

int sdata = secondVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V11, sdata);

}

void sensorvalue3()

{

int sdata = thirdVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V12, sdata);

}

void sensorvalue4()

{

int sdata = firstVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V13, sdata);

}

void sensorvalue5()

{

int sdata = secondVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V14, sdata);

}

void sensorvalue6()

{

int sdata = thirdVal;

// You can send any value at any time.

// Please don't send more that 10 values per second.

Blynk.virtualWrite(V15, sdata);

}

\*/

String getValue(String data, char separator, int index)

{

int found = 0;

int strIndex[] = { 0, -1 };

int maxIndex = data.length() - 1;

for (int i = 0; i <= maxIndex && found <= index; i++) {

if (data.charAt(i) == separator || i == maxIndex) {

found++;

strIndex[0] = strIndex[1] + 1;

strIndex[1] = (i == maxIndex) ? i+1 : i;

}

}

return found > index ? data.substring(strIndex[0], strIndex[1]) : "";

}

// in Blynk app writes values to the Virtual Pin V10

BLYNK\_WRITE(V10)

{

pinValue1 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

// in Blynk app writes values to the Virtual Pin V11

BLYNK\_WRITE(V11)

{

pinValue2 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

// in Blynk app writes values to the Virtual Pin V12, this is for the slider

BLYNK\_WRITE(V12)

{

pinValue3 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

BLYNK\_WRITE(V13)

{

pinValue4 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

// in Blynk app writes values to the Virtual Pin V14

BLYNK\_WRITE(V14)

{

pinValue5 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

// in Blynk app writes values to the Virtual Pin V15, this is for the slider

BLYNK\_WRITE(V15)

{

pinValue6 = param.asInt(); // assigning incoming value from pin V10 to a variable

}

void toarduino()

{

v2arduino = v2arduino + pinValue1 + "," + pinValue2 + "," + pinValue3+","+ pinValue4 + "," + pinValue5 + "," + pinValue6;

Serial.println(v2arduino);

delay(100);

v2arduino = "";

}