#include <Adafruit\_Fingerprint.h>

#include <SoftwareSerial.h>

int getFingerprintIDez();

char data ;

// pin #4 is IN from sensor (GREEN wire)

// pin #5 is OUT from arduino (WHITE wire)

SoftwareSerial mySerial(4, 5);

Adafruit\_Fingerprint finger = Adafruit\_Fingerprint(&mySerial);

void setup()

{

Serial.begin(9600);

// Bits per sec

Serial.println("fingertest");

// set the data rate for the sensor serial port

finger.begin(57600);

if (finger.verifyPassword()) {

Serial.println("Found fingerprint sensor!");

} else {

Serial.println("Did not find fingerprint sensor :(");

while (1);

}

Serial.println("Waiting for valid finger...");

}

void loop() // run over and over again

{

getFingerprintIDez();

}

uint8\_t getFingerprintID() {

uint8\_t p = finger.getImage();

switch (p) {

case FINGERPRINT\_OK:

Serial.println("Image taken");

break;

case FINGERPRINT\_NOFINGER:

Serial.println("No finger detected");

return p;

case FINGERPRINT\_PACKETRECIEVEERR:

Serial.println("Communication error");

return p;

case FINGERPRINT\_IMAGEFAIL:

Serial.println("Imaging error");

return p;

default:

Serial.println("Unknown error");

return p;

}

// OK success!

p = finger.image2Tz();

switch (p) {

case FINGERPRINT\_OK:

Serial.println("Image converted");

break;

case FINGERPRINT\_IMAGEMESS:

Serial.println("Image too messy");

return p;

case FINGERPRINT\_PACKETRECIEVEERR:

Serial.println("Communication error");

return p;

case FINGERPRINT\_FEATUREFAIL:

Serial.println("Could not find fingerprint features");

return p;

case FINGERPRINT\_INVALIDIMAGE:

Serial.println("Could not find fingerprint features");

return p;

default:

Serial.println("Unknown error");

return p;

}

// OK converted!

p = finger.fingerFastSearch();

if (p == FINGERPRINT\_OK) {

Serial.println("Found a print match!");

} else if (p == FINGERPRINT\_PACKETRECIEVEERR) {

Serial.println("Communication error");

return p;

} else if (p == FINGERPRINT\_NOTFOUND) {

Serial.println("Did not find a match");

return p;

} else {

Serial.println("Unknown error");

return p;

}

// found a match!

Serial.print("Found ID #"); Serial.print(finger.fingerID);

Serial.print(" with confidence of "); Serial.println(finger.confidence);

}

// returns -1 if failed, otherwise returns ID #

int getFingerprintIDez() {

uint8\_t p = finger.getImage();

if (p != FINGERPRINT\_OK) return -1;

p = finger.image2Tz();

if (p != FINGERPRINT\_OK) return -1;

p = finger.fingerFastSearch();

if (p != FINGERPRINT\_OK) return -1;

// found a match!

// Serial.print("Found ID #"); Serial.print(finger.fingerID);

// Serial.print(" with confidence of "); Serial.println(finger.confidence);

if(finger.fingerID == 11)

{

Serial.println("stu1");

delay(1000);

}

if(finger.fingerID == 2)

{

Serial.println("stu2");

delay(1000);

}

if(finger.fingerID == 3)

{

Serial.println("stu3");

delay(1000);

}

else

return finger.fingerID;

// Serial.println("Invalid User\n");

}

