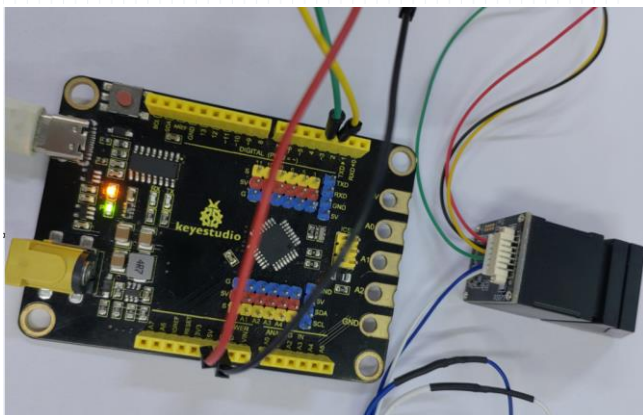
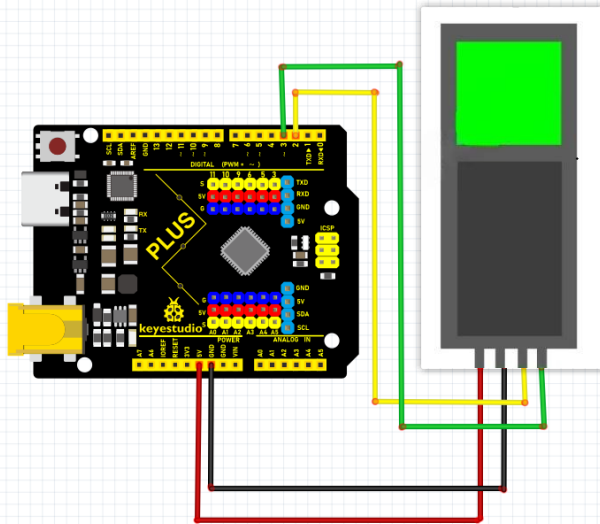
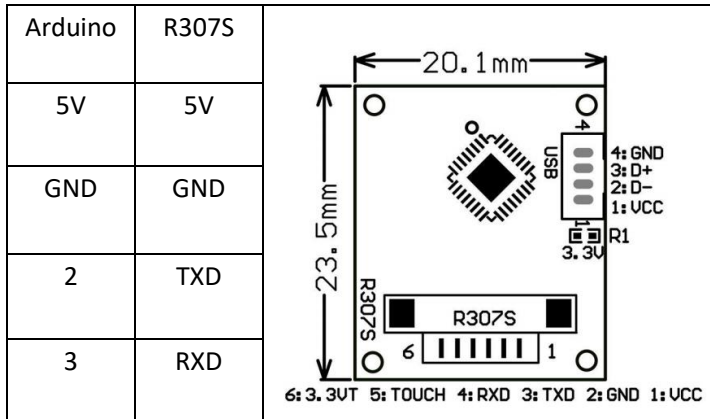


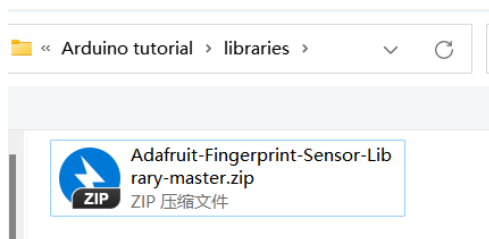
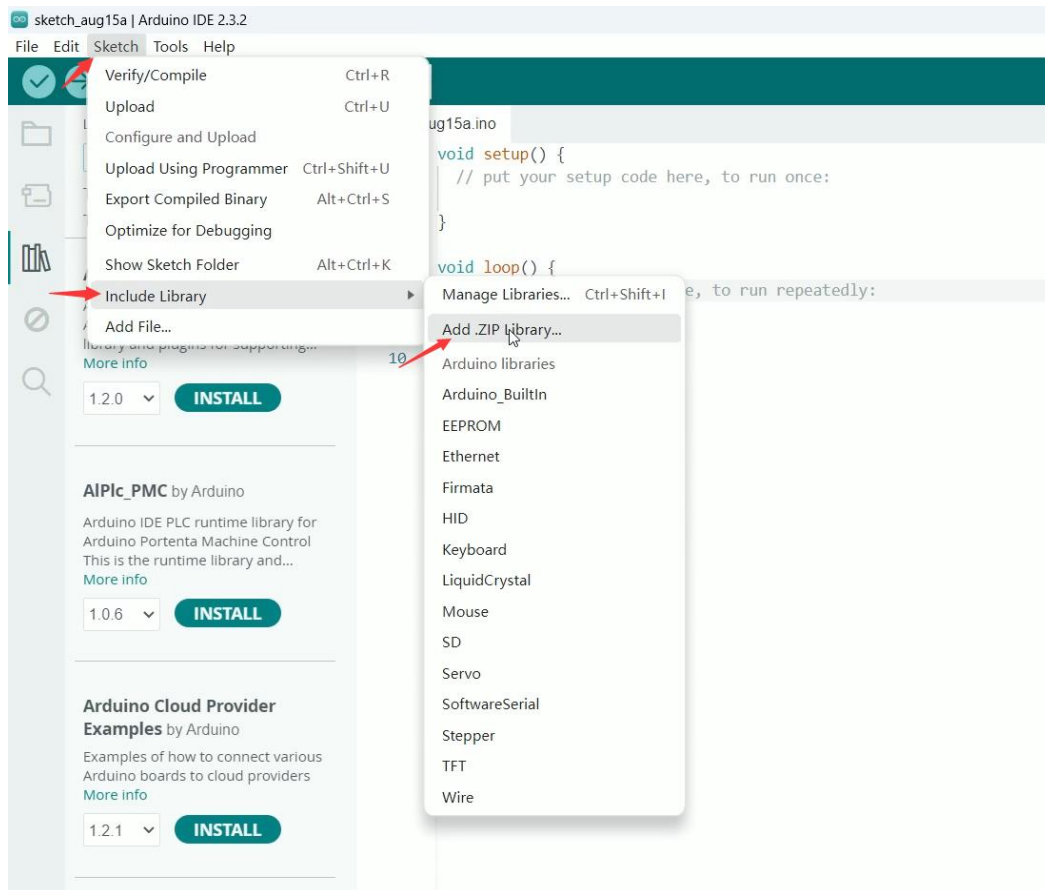
R307S Optical fingerprint module

1. Product wiring:

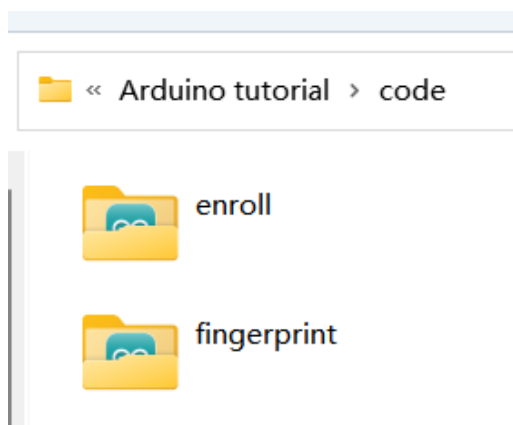


2. Install arduino ide 2.3.2

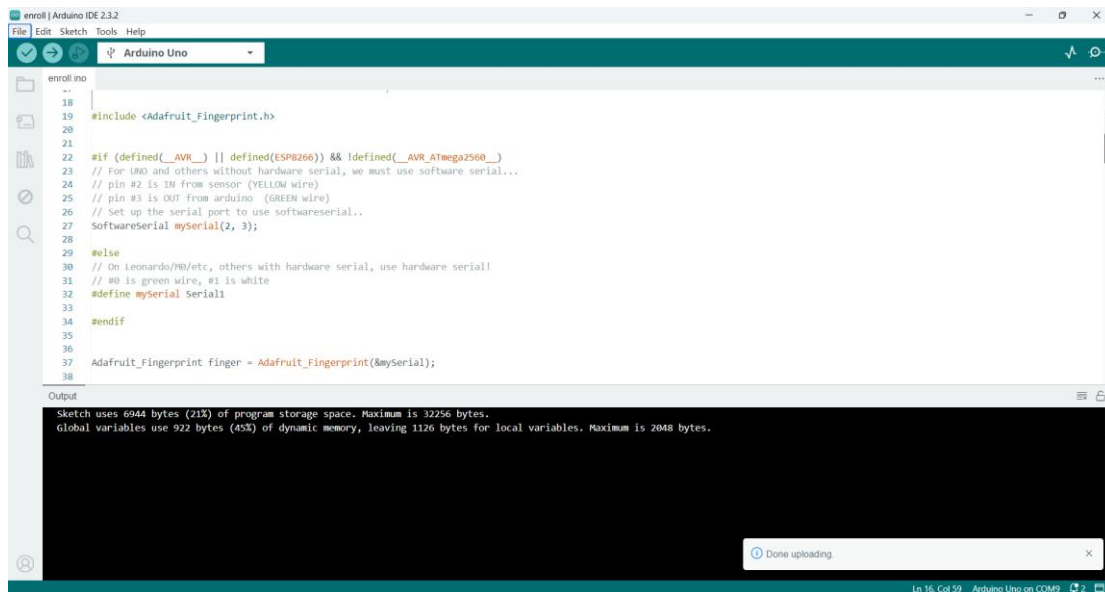
3. Import library:



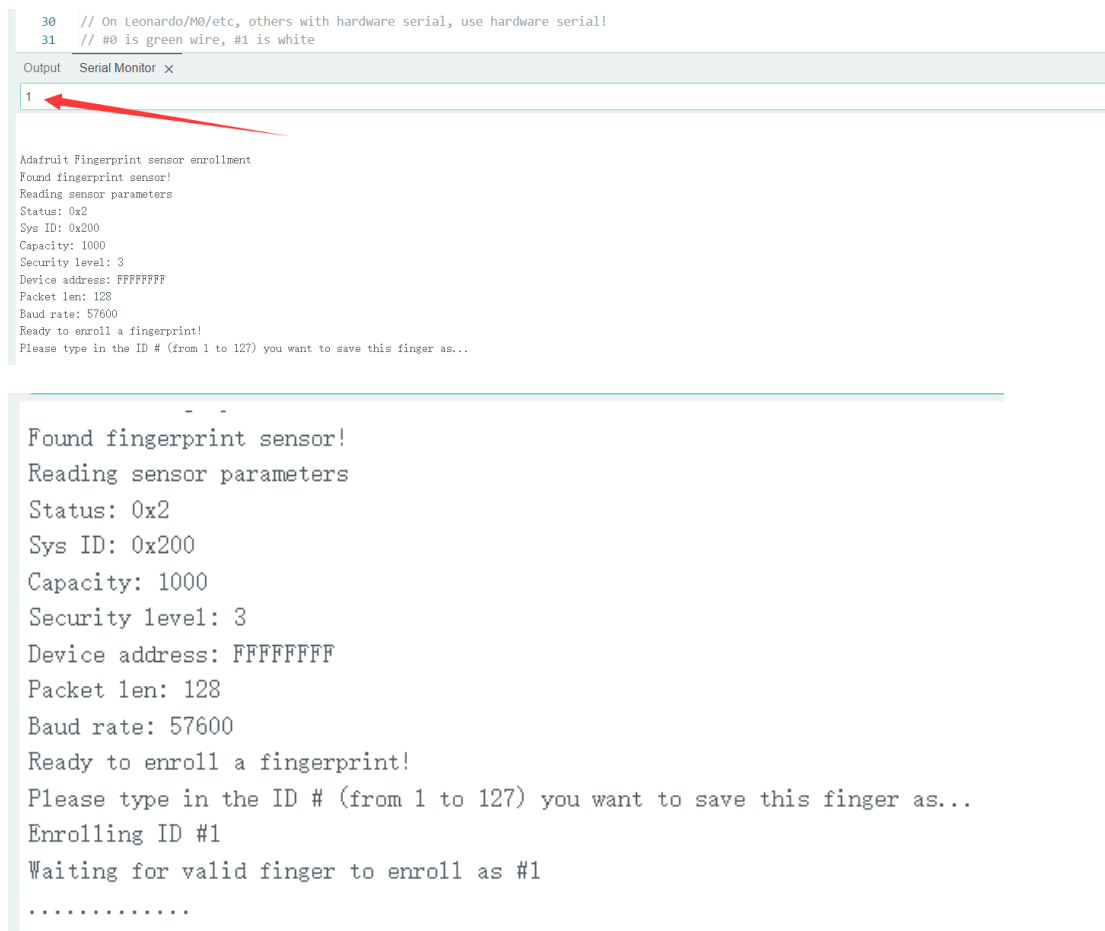
4. Enter the code folder: “enroll” is to enroll fingerprints; “fingerprint” reads the fingerprints.



Open **Enroll.ino** and Upload, and open **Serial Monitor**



Send “1”



Place the finger in the sensing area and repeat twice.

```
Waiting for valid finger to enroll as #1
.....
Image converted
Remove finger
ID 1
Place same finger again
.....Image taken
Image converted
Creating model for #1
Prints matched!
ID 1
Stored!
Ready to enroll a fingerprint!
Please type in the ID # (from 1 to 127) you want to save this finger as...
```

Open fingerprint.ino and Upload, open Serial Monitor

The screenshot shows the Arduino IDE interface. The top menu bar includes File, Edit, Sketch, Tools, and Help. The toolbar contains icons for checking, running, and uploading. The current board is set to 'Arduino Uno'. The main editor window displays the 'fingerprint.ino' file with the following code:

```
1  /*****
2  This is an example sketch for our optical Fingerprint sensor
3
4  Designed specifically to work with the Adafruit BMP085 Breakout
5  ----> http://www.adafruit.com/products/751
6
7  These displays use TTL Serial to communicate, 2 pins are required to
8  interface
9  Adafruit invests time and resources providing this open source code,
10 please support Adafruit and open-source hardware by purchasing
11 products from Adafruit!
12
13 Written by Limor Fried/Ladyada for Adafruit Industries.
14 BSD license, all text above must be included in any redistribution
15 *****/
16
17
18 #include <Adafruit_Fingerprint.h>
19
20
21 #if (defined(__AVR__) || defined(ESP8266)) && !defined(__AVR_ATmega2560__)
22 // For UNO and others without hardware serial, we must use software serial
```

The Serial Monitor window is open, showing the following output:

```
Adafruit finger detect test
Found fingerprint sensor!
Reading sensor parameters
Status: 0x2
Sys ID: 0x200
Capacity: 1000
Security level: 3
Device address: FFFFFFFF
Packet Len: 128
```

Put your finger in the sensing area to identify the fingerprint

message (Enter to send message to Arduino Uno)

```
no finger detected  
No finger detected  
No finger detected  
No finger detected  
Image taken  
Image converted  
Found a print match!  
Found ID #1 with confidence of 120  
Image taken  
Image converted  
Unknown error
```