# Micropython

## ESP32 3.5inch Display
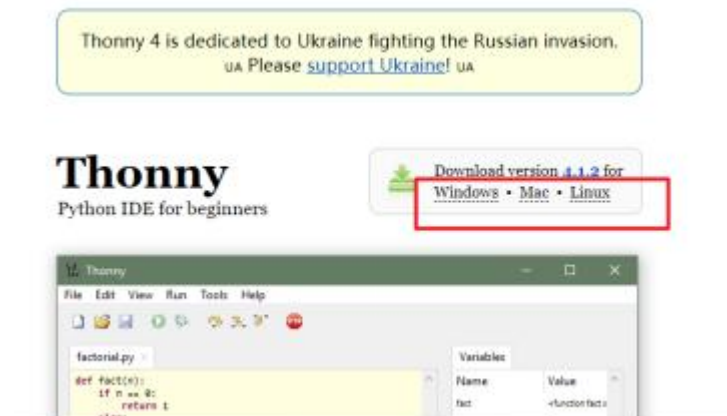
## Items to be prepared：

| ID | module | quantity |
|---|---|---|
| Hardware | | |
| 1 | USB A to TYPE-C cable | 1 |
| 2 | 2.4inch screen | 1 |
| 3 | Crowtail-light sensor | 1 |
| 4 | Crowtail-led | 1 |
| 5 | 4-pin HY2.0 cable (for Crowtail module) | 2 |
| Software | | |
| 1 | Thonny | 1 |
| 2 | Lvgl+micropyhton firmware | 1 |
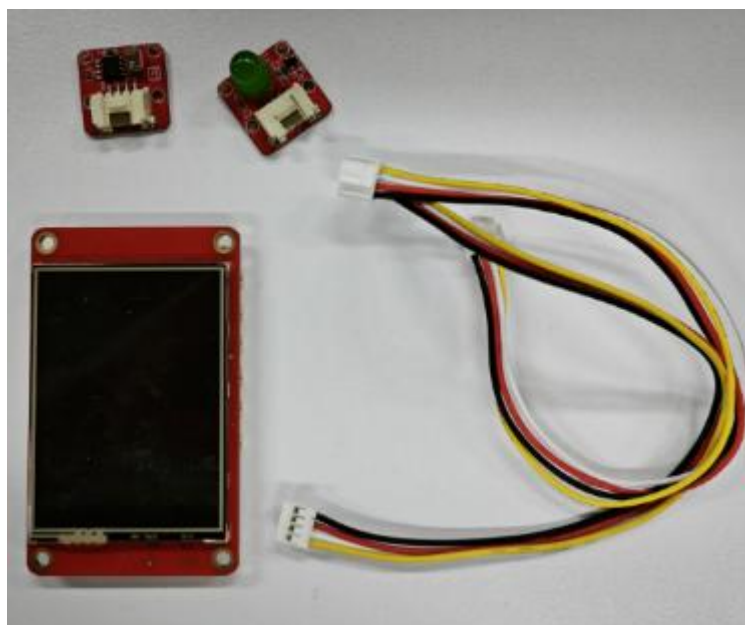
# Software preparation:

**Go to https://thonny.org/ and download the corresponding software version (take the Windows version as an example).**

Thonny 4 is dedicated to Ukraine fighting the Russian invasion.
UA Please support Ukraine! UA

# Thonny
Python IDE for beginners

Download version 4.1.2 for
Windows · Mac · Linux

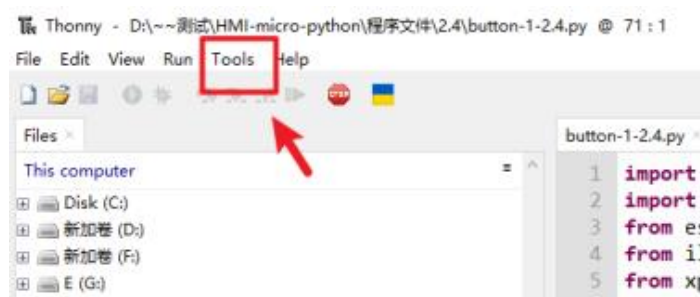**Double-click the downloaded exe file to install the software. (Go to the next step and install directly)**

Setup - Thonny
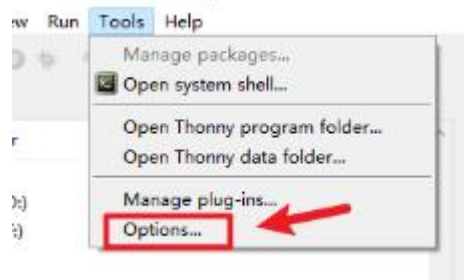
## Welcome to using Thonny!

This wizard will upgrade Thonny to version 4.1.2 for your account.

Next    Cancel

# Firmware download:

**Open the thonny software and click Tools**

Thonny - D:\~~测试\HMI-micro-python\程序文件\2.4\button-1-2.4.py @ 71:1

File  Edit  View  Run  Tools  Help

Files

button-1-2.4.py

This computer

⊞ 💾 Disk (C:)
⊞ 💾 新加卷 (D:)
⊞ 💾 新加卷 (F:)
⊞ 💾 E (G:)

1  import
2  import
3  from es
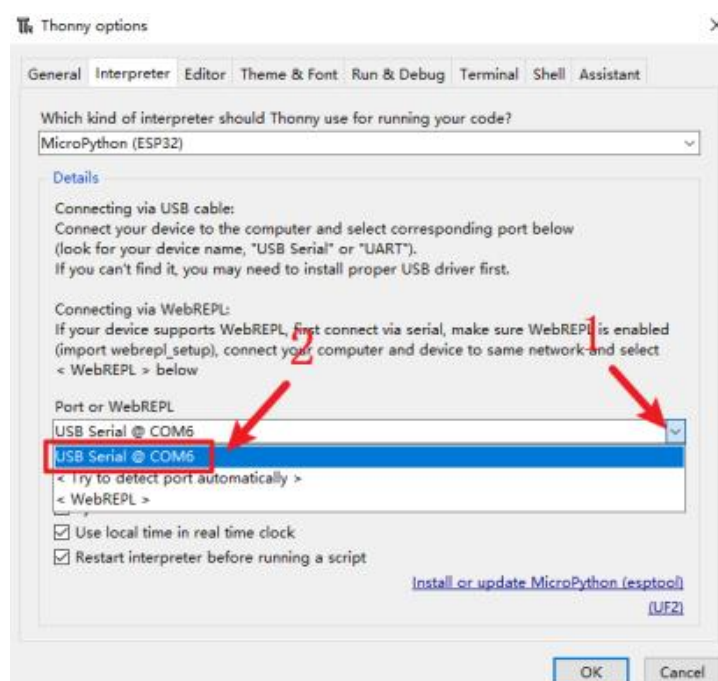4  from il
5  from xp

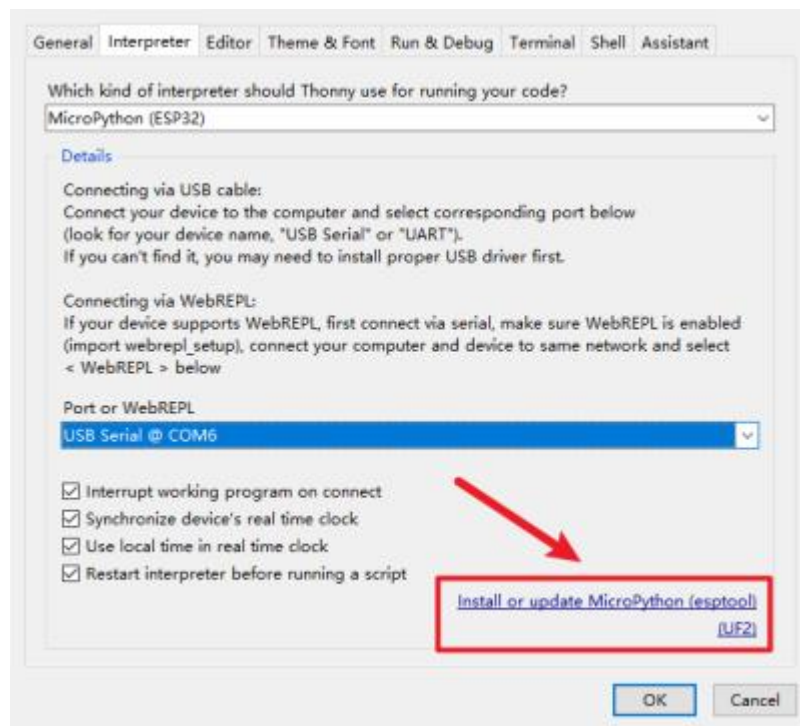**Click Options to enter the Interpreter option.**



**Click the drop-down menu and select MicroPython(esp32)**
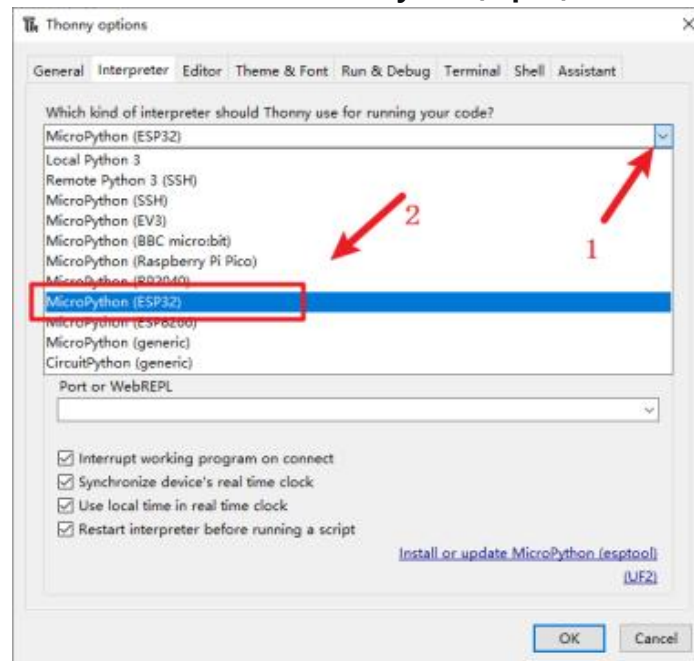


**Select the serial port number (you need to press the hardware BOOT key and then connect to the computer, if no com number is displayed, check whether the serial port driver is installed)**
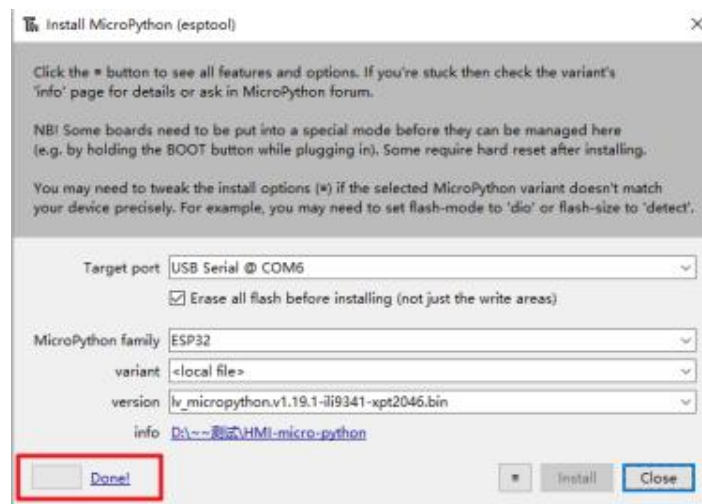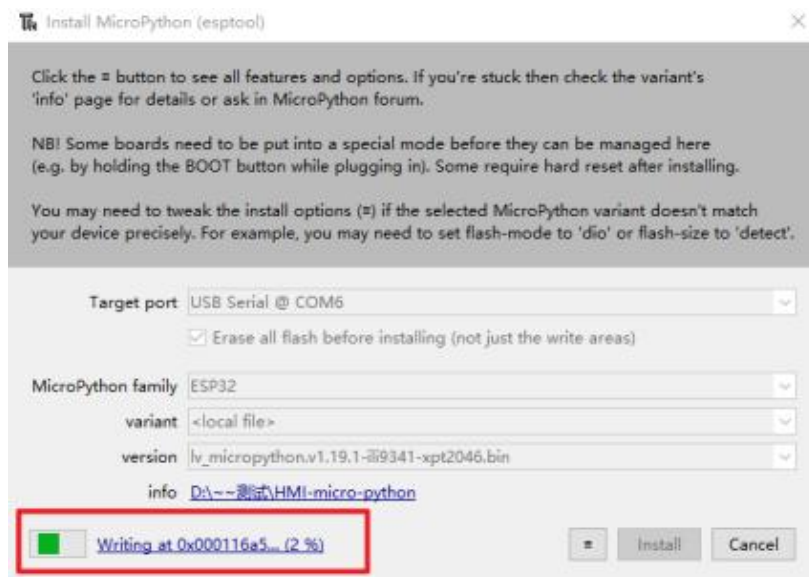
**Click to download firmware**



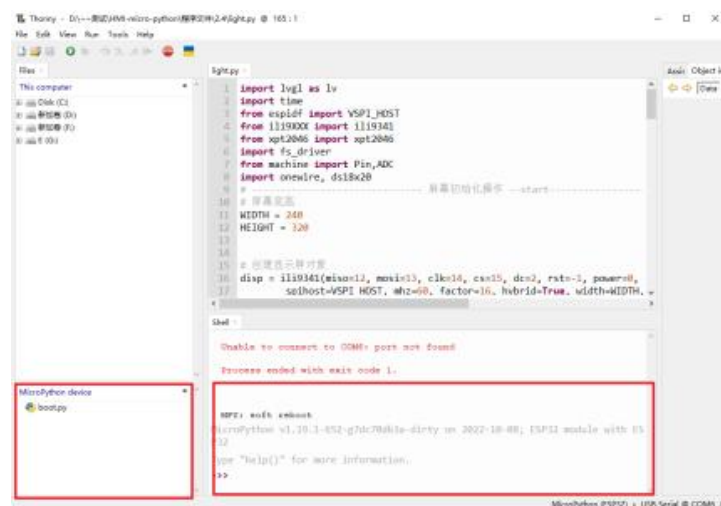**Choose to download the firmware from local and click Install (select the firmware corresponding to the screen)**
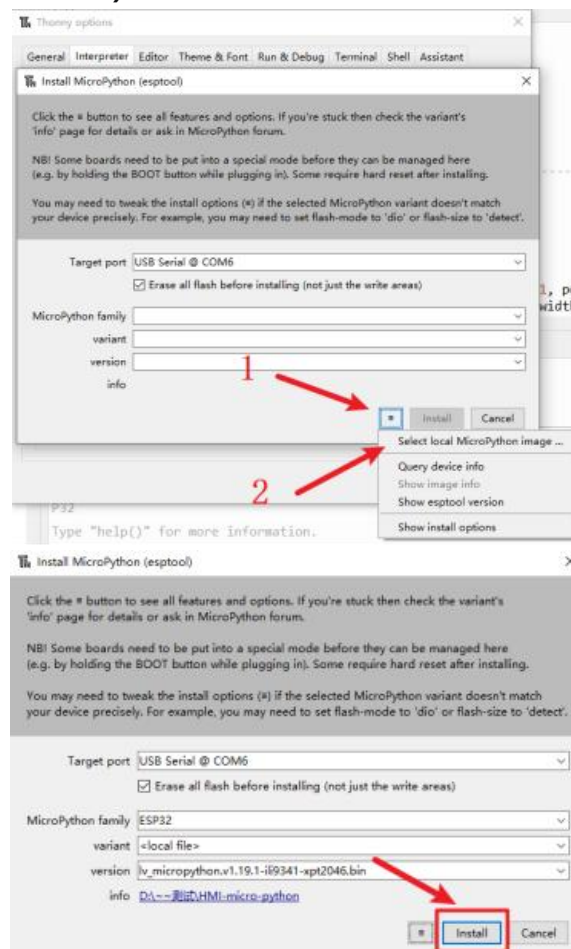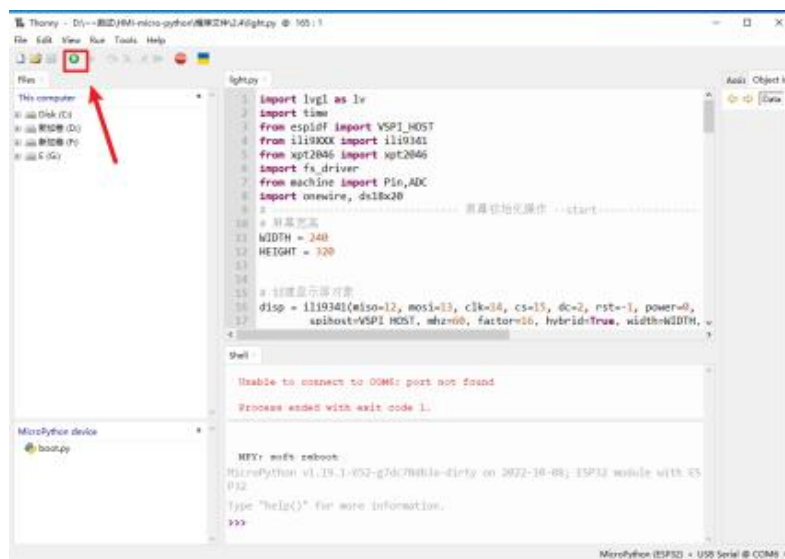
**Wait for successful installation**





# Run program：

**Click the reset button on the screen or reinsert the data cable to open the routine program.**

**Run the program and click Run**



**Program effect (when the light intensity exceeds 60%, the light goes out. Light is on when the light intensity is less than 60%)**

```
>>> %Run -c $EDITOR_CONTENT

MPY: soft reboot
Double buffer
ILI9341 initialization completed
Enable backlight
提示：按下Ctrl+C结束程序
```