2. the installation CanMV IDE development software

2.1 download CanMV IDE

1. CanMV IDE GitHub address, according to their own system to download the corresponding software package is installed, here to win10 as an example:

https://github.com/kendryte/canmv_ide/releases

3. After the download gets canmv-ide-a windows-vx. x. x-gxxxxxx. exe file, double-click to open the installation package.

CanMV IDE 2.9.2 Setup

Setup - CanMV IDE

Setup - CanMV IDE

Installation Folder

Select Components

License Agreement

Start Menu shortcuts

Ready to Install

Welcome to the CanMV IDE Setup Wizard.

[Next] [Quit]

Modify the installation path

CanMV IDE 2.9.2 Setup

Setup - CanMV IDE

Installation Folder

License Agreement

Start Menu shortcuts

Ready to Install

Installing

Installation Folder

Please specify the directory where CanMV IDE will be installed.

C:/Program Files/CanMV IDE   [Browse...]

[Next] [Cancel]

CanMV IDE 2.9.2 Setup

Setup - CanMV IDE

Installation Folder

License Agreement

Start Menu shortcuts

Ready to Install

Installing

License Agreement

Please read the following license agreement. You must accept the terms contained in this agreement before continuing with the installation.

This is the GNU General Public License version 3, annotated with The Qt Company GPL Exception 1.0:

The Qt Company GPL Exception 1.0

☑ I accept the license.

[Next] [Cancel]

×

← CanMV IDE 2.9.2 Setup

Setup - CanMV IDE

Installation Folder

License Agreement

Start Menu shortcuts

Ready to Install

Installing

Start Menu shortcuts

Select the Start Menu in which you would like to create the program's shortcuts. You can also enter a name to create a new directory.

CanMV IDE

Accessibility
Accessories
Administrative Tools
Beyond Compare 2
CANTest
Chrome 应用
DiskInternals

Next   Cancel

×

← CanMV IDE 2.9.2 Setup

Setup - CanMV IDE

Installation Folder

License Agreement

Start Menu shortcuts

Ready to Install

Installing

Ready to Install

Setup is now ready to begin installing CanMV IDE on your computer. Installation will use 311.05 MB of disk space.

Install   Cancel

Wait for the installation Assembly can be completed.

×

CanMV IDE 2.9.2 Setup

Installation Folder

License Agreement

Start Menu shortcuts

Ready to Install

Installing

Finished

Completing the CanMV IDE Wizard

Click Finish to exit the CanMV IDE Wizard.

☑ Launch CanMV IDE

Finish
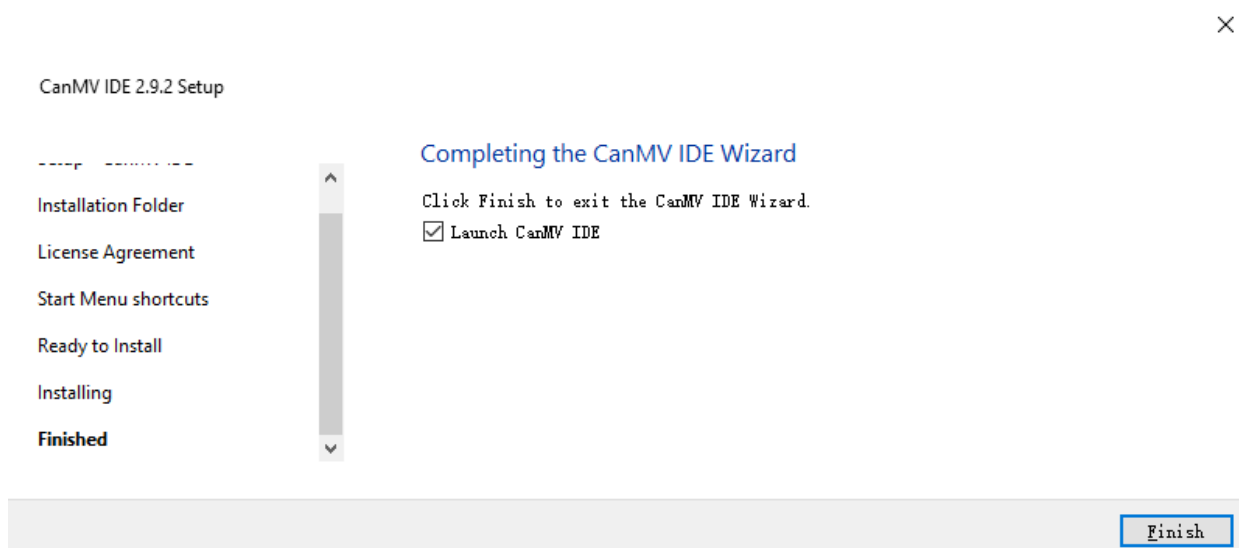
2.2 interface functional description
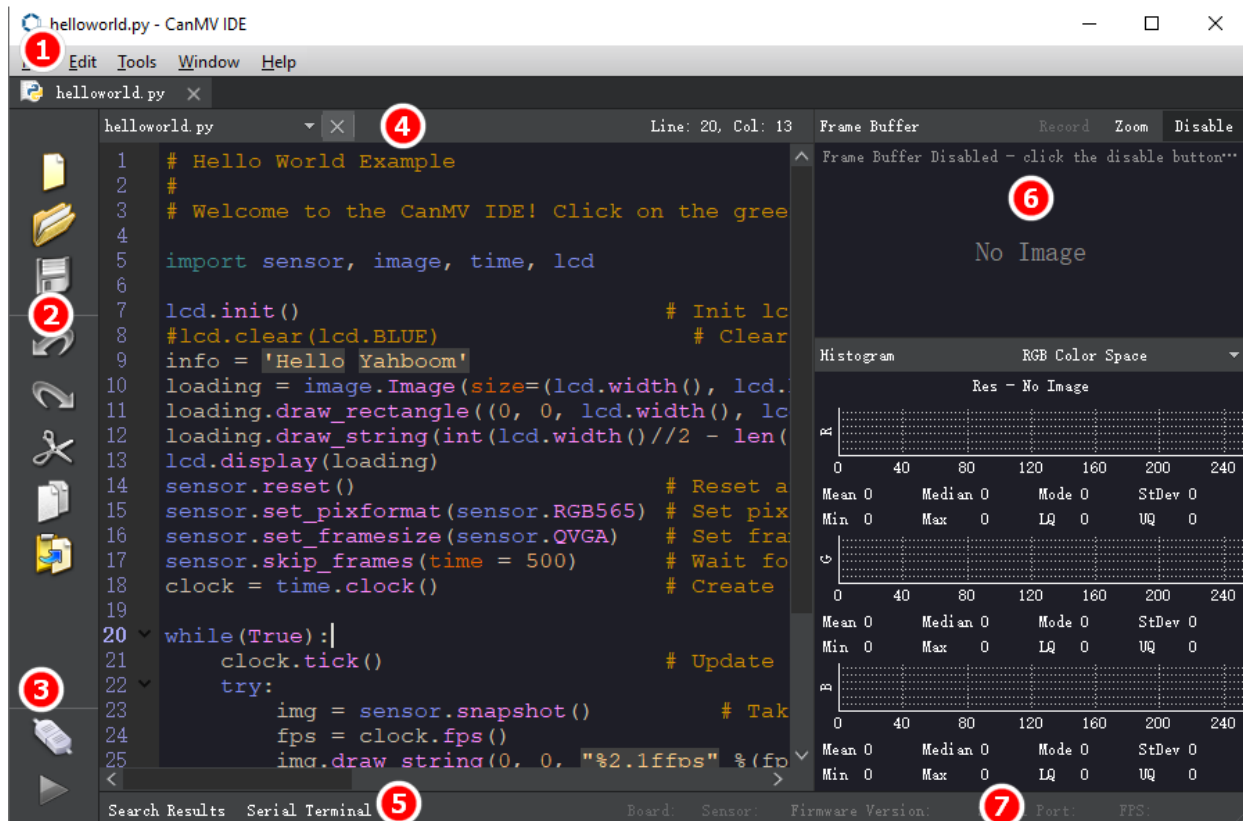
Area ① menu bar: the operation file, use tools, etc.

Area ② shortcut buttons: regional ① `file` And `edit` Some of the features of the shortcut.

Area ③ connect the device: connect the device and program the control button.

Region ④ code editing area: edit to run the code.

Region ⑤ serial terminal: display the serial port to print debugging information.

Region ⑥ image preview: display the camera image preview.

Region ⑦ firmware information: shows the connection of the serial number and the firmware information.

2.3 connected devices

The K210 module via the microUSB cable is connected to the computer USB port.

Then click on the CanMV IDE in the lower left corner of the Connect button

```
helloworld.py - CanMV IDE

File   Edit   Tools   Window   Help

helloworld.py   ✕

helloworld.py              ▼ ✕                          Line: 1, Col: 1

1    # Hello World Example
2    #
3    # Welcome to the CanMV IDE! Click on the gree
4
5    import sensor, image, time, lcd
6
7    lcd.init()                                # Init lc
8    #lcd.clear(lcd.BLUE)                       # Clear
9    info = 'Hello Yahboom'
10   loading = image.Image(size=(lcd.width(), lcd.
11   loading.draw_rectangle((0, 0, lcd.width(), lc
12   loading.draw_string(int(lcd.width()//2 - len(
13   lcd.display(loading)
14   sensor.reset()                            # Reset a
15   sensor.set_pixformat(sensor.RGB565)  # Set pix
16   sensor.set_framesize(sensor.QVGA)    # Set fra
17   sensor.skip_frames(time = 500)       # Wait fo
18   clock = time.clock()                      # Create
19
20 ⌄ while(True):
21       clock.tick()                          # Update
22 ⌄     try:
23           img = sensor.snapshot()              # Tak
24           fps = clock.fps()
25           img.draw_string(0, 0, "%2.1ffps" %(fp

Search Results   Serial Terminal                Board:   Sensor:
```
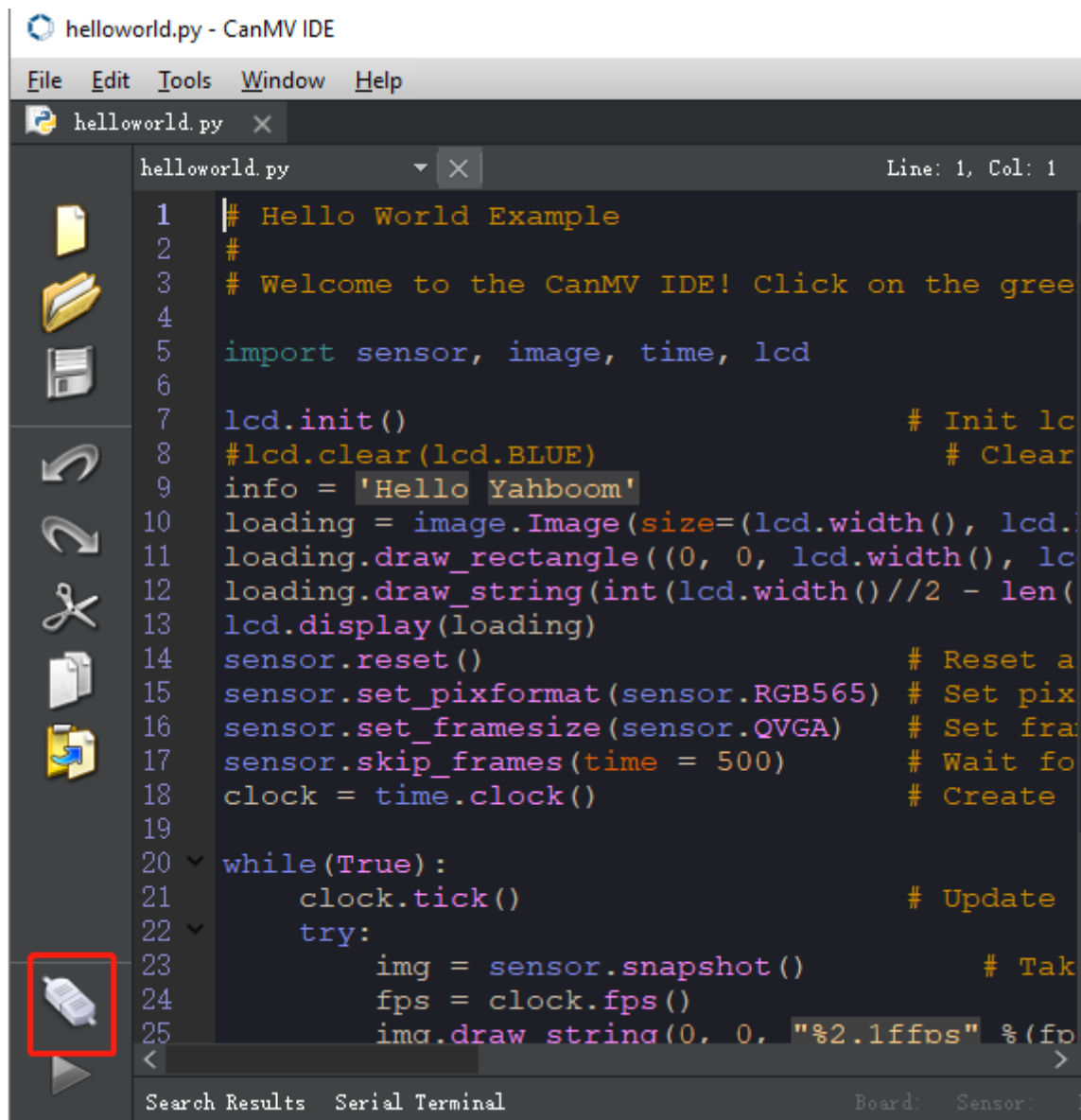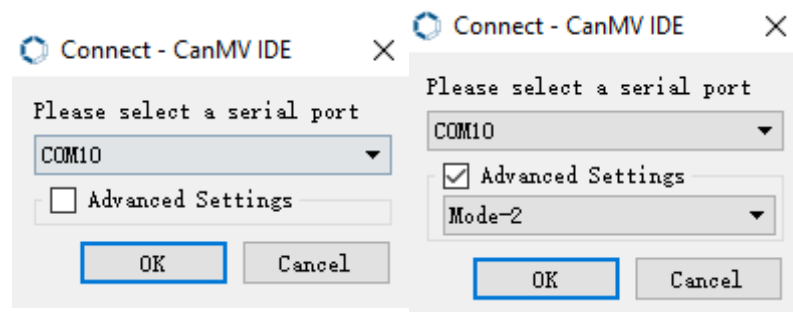
 The pop-up select the serial port, select the K210 module corresponding to the serial number. If there are multiple serial ports, first determine the corresponding serial port number and then click OK to open.

If the connection is not on, you can click Advanced settings, Select the Mode to 2.

A successful connection will be the icon changes to a connected state, while the gray play button becomes green.
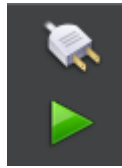
2.4 temporary run the program
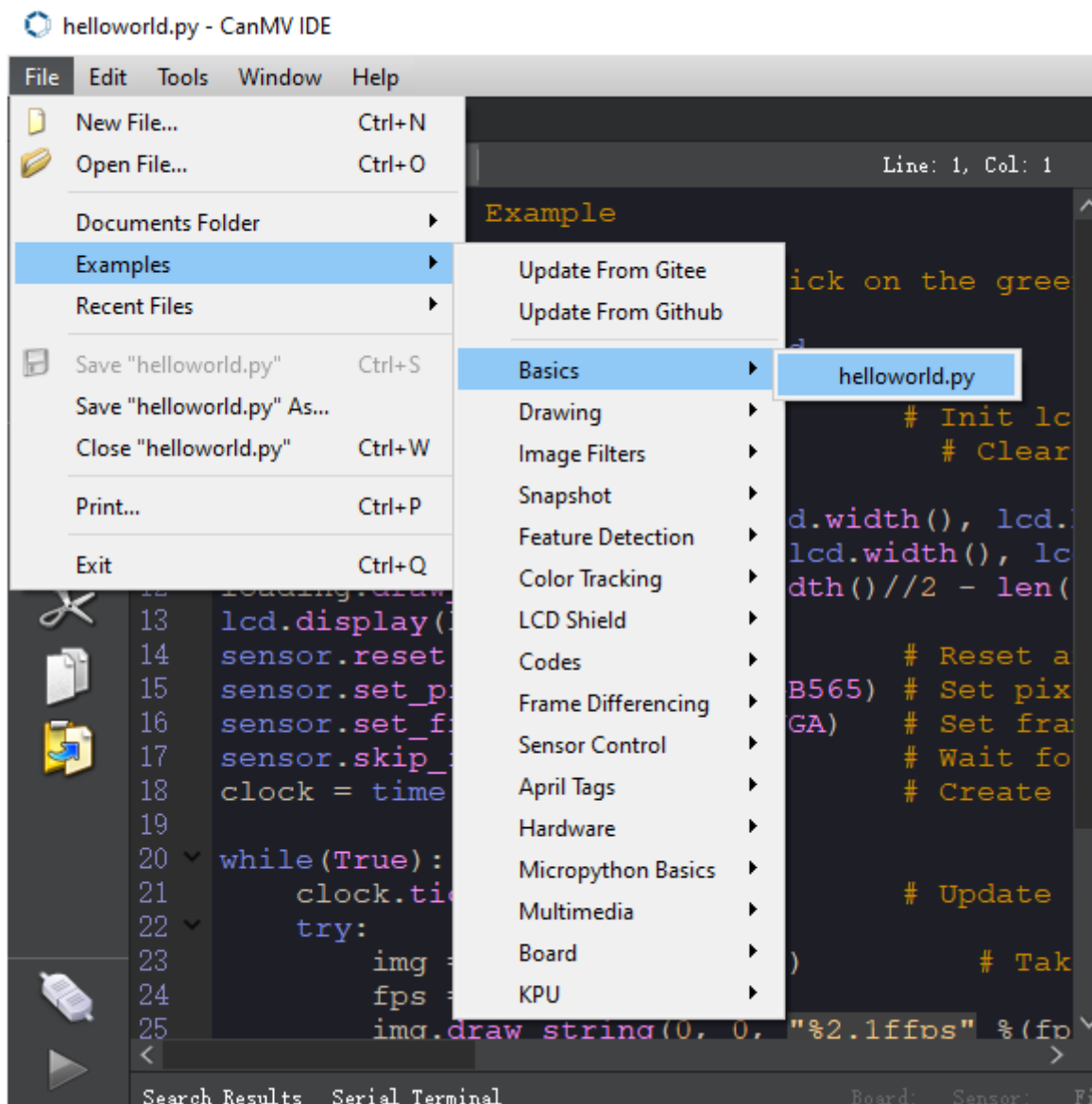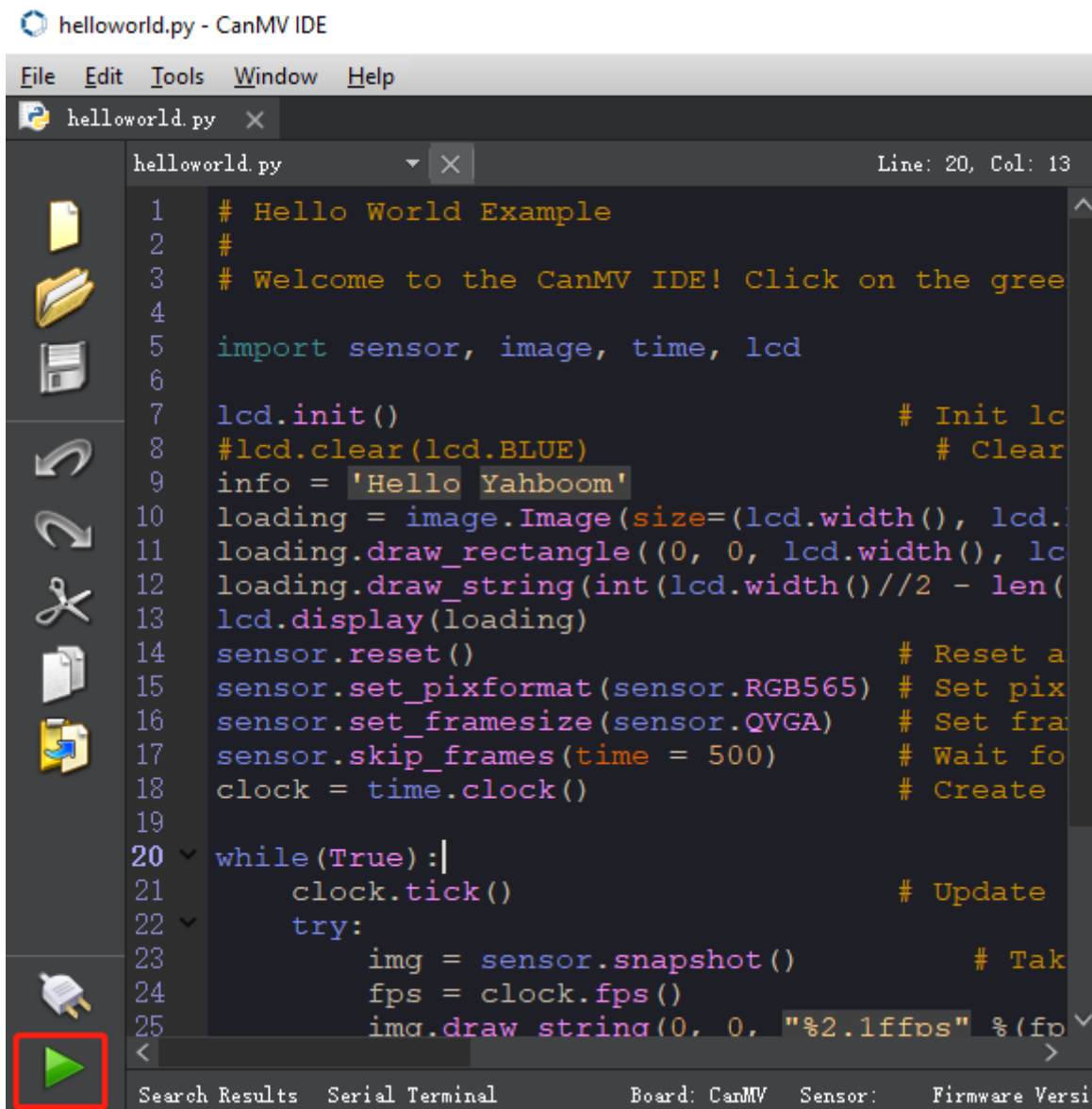
Note: This step is to run the program, disconnect, press the reset button or shut down, the program lost not saved.

After the connection is complete, you can see in the lower left corner of the connection icon turns into a connected symbol.

If there is no open routine, you can open the file->examples->Basics->helloworld.py

Click on the green play button to run the program.

helloworld.py - CanMV IDE

File Edit Tools Window Help

helloworld.py ×

helloworld.py   ▼ ×   Line: 20, Col: 13

```
1   # Hello World Example
2   #
3   # Welcome to the CanMV IDE! Click on the gree
4
5   import sensor, image, time, lcd
6
7   lcd.init()                              # Init lc
8   #lcd.clear(lcd.BLUE)                     # Clear
9   info = 'Hello Yahboom'
10  loading = image.Image(size=(lcd.width(), lcd.
11  loading.draw_rectangle((0, 0, lcd.width(), lc
12  loading.draw_string(int(lcd.width()//2 - len(
13  lcd.display(loading)
14  sensor.reset()                          # Reset a
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17  sensor.skip_frames(time = 500)       # Wait fo
18  clock = time.clock()                    # Create
19
20  while(True):|
21      clock.tick()                        # Update
22      try:
23          img = sensor.snapshot()              # Tak
24          fps = clock.fps()
25          img.draw_string(0, 0, "%2.1ffps" %(fp
```

Search Results   Serial Terminal   Board: CanMV   Sensor: Firmware Versi

At this point you can see the LCD display the camera screen, while the IDE the upper right corner also display the camera screen.

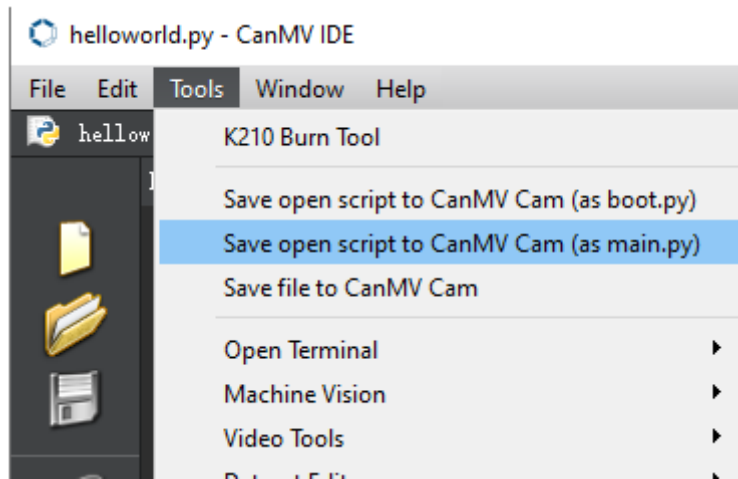The green play button icon turns into the red stop button, one click can stop the running program.
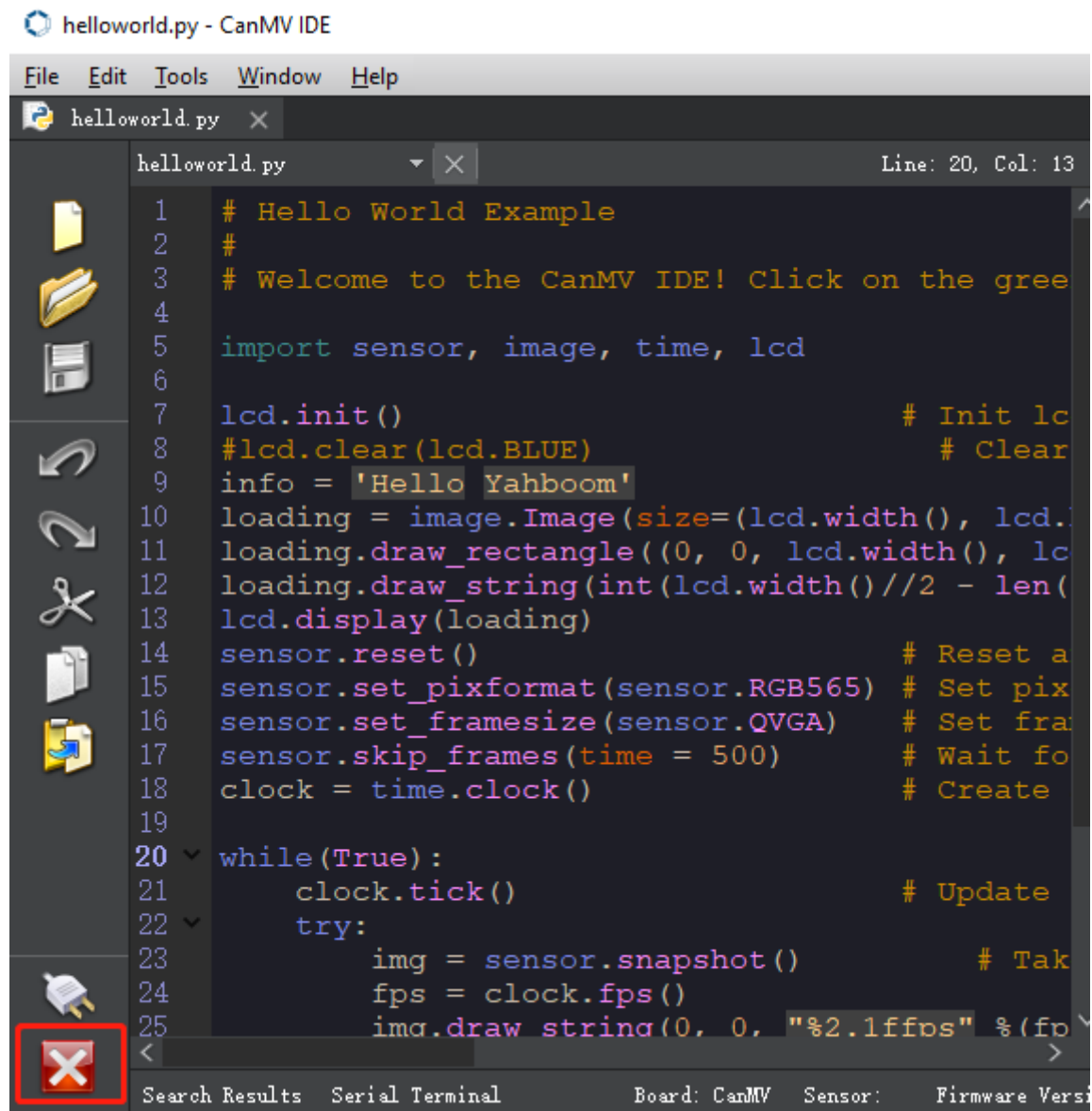
2.5 boot to run the program

Note: This step of the procedure to re-power automatically after running.

In keeping connected to the case, click on Tools->Save the currently open script of main.py to CanMV Cam

Click Yes to save the program, after completion, disconnect, or press the reset button, the program will run automatically.

If insert the TF card, the program priority saved to the TF card, and the priority to run the TF card in the main. py file.