

7.2、 Install CanMV IDE development software

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7.2.1、 Download CanMV IDE

1.The GitHub address of CanMV IDE, download the corresponding software installation package according to your own system, here take win10 as an example :

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

Nov 21, 2022

 kendryte747

 v2.9.2-1

 626670d

Compare ▾

v2.9.2-1

Latest

Add update examples from github/gitee, user should install git to system PATH.






sha2

737ef5835faeed9be89db1a2e6d9557640717f6563931a21f0d4962292e7d97d canmv-ide-linux-x86_64-v2.9.2-1-g626670d.run

2d668984080c7a03fd3793cabdf3d96c8745ee539cbf9021e9e43a219c51f2b2 canmv-ide-mac-2.9.2-1-g626670d.dmg

5a111b83f2fc3802b29e2bdc802cc0809a70e5d7e79ee65362c3a641916e36cc canmv-ide-windows-v2.9.2-1-g626670d.exe

Assets 5

 canmv-ide-linux-x86_64-v2.9.2-1-g626670d.run	136 MB	Nov 21, 2022
 canmv-ide-mac-2.9.2-1-g626670d.dmg	137 MB	Nov 21, 2022
 canmv-ide-windows-v2.9.2-1-g626670d.exe	104 MB	Nov 21, 2022
 Source code (zip)		Nov 21, 2022
 Source code (tar.gz)		Nov 21, 2022



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

Setup - CanMV IDE

Installation Folder

Select Components

License Agreement

Start Menu shortcuts

Ready to Install

Setup - CanMV IDE

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.

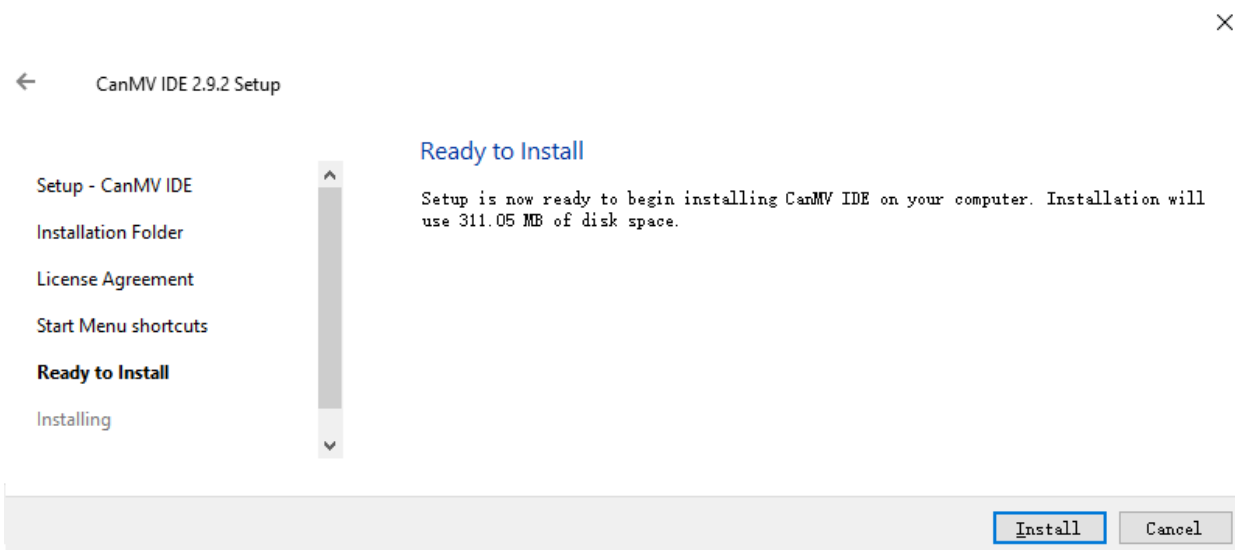
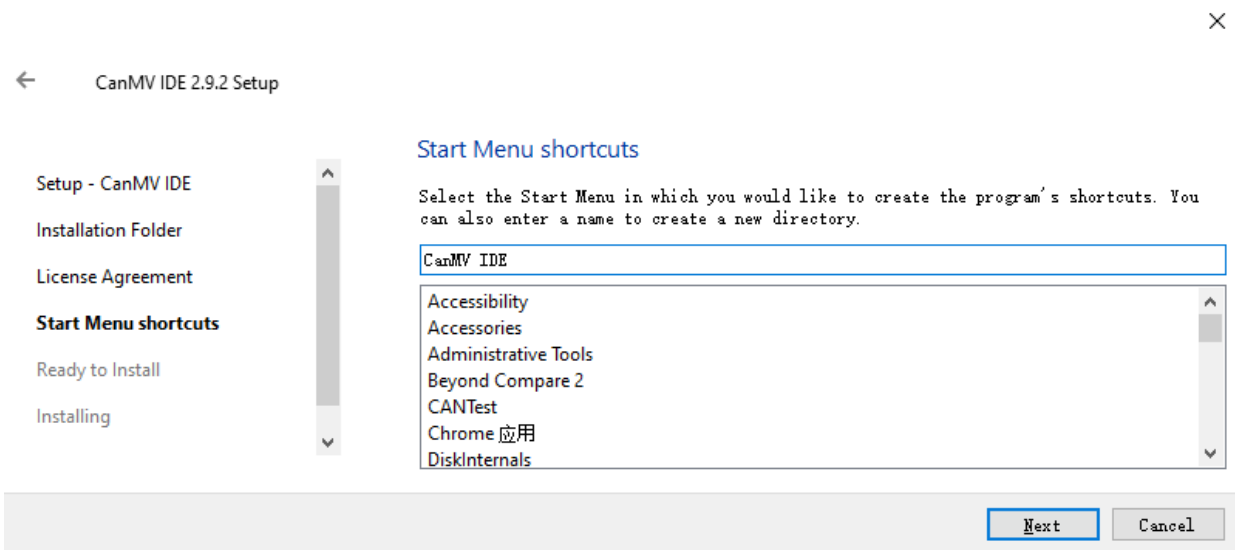
This is the GNU General Public License version 3, annotated with The Qt Company GPL Exception 1.0:

The Qt Company GPL Exception 1.0

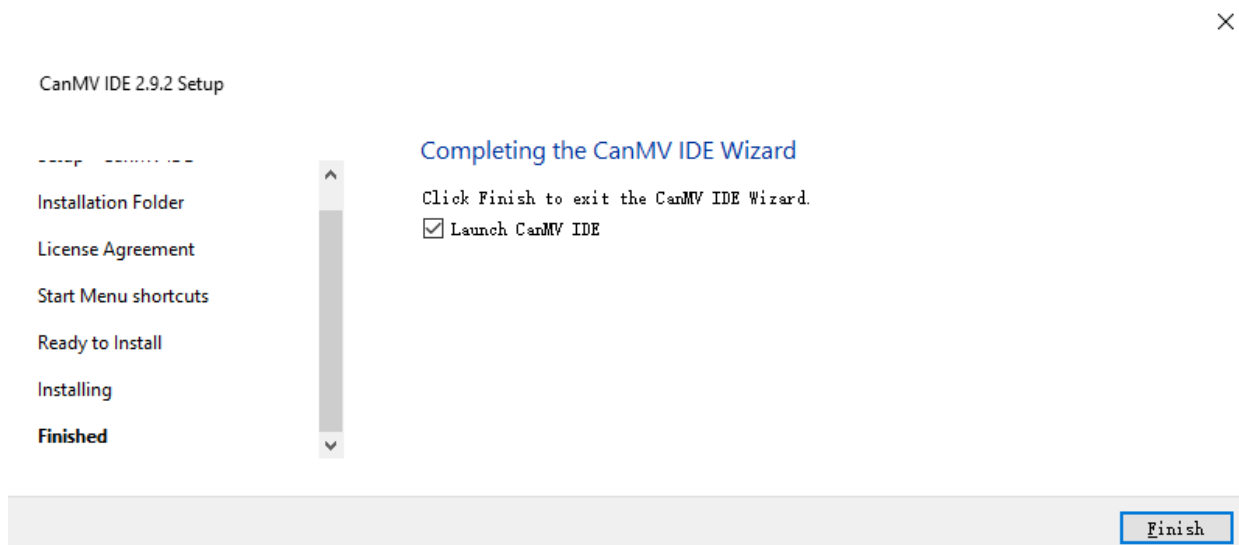
☒ I accept the license.

Next

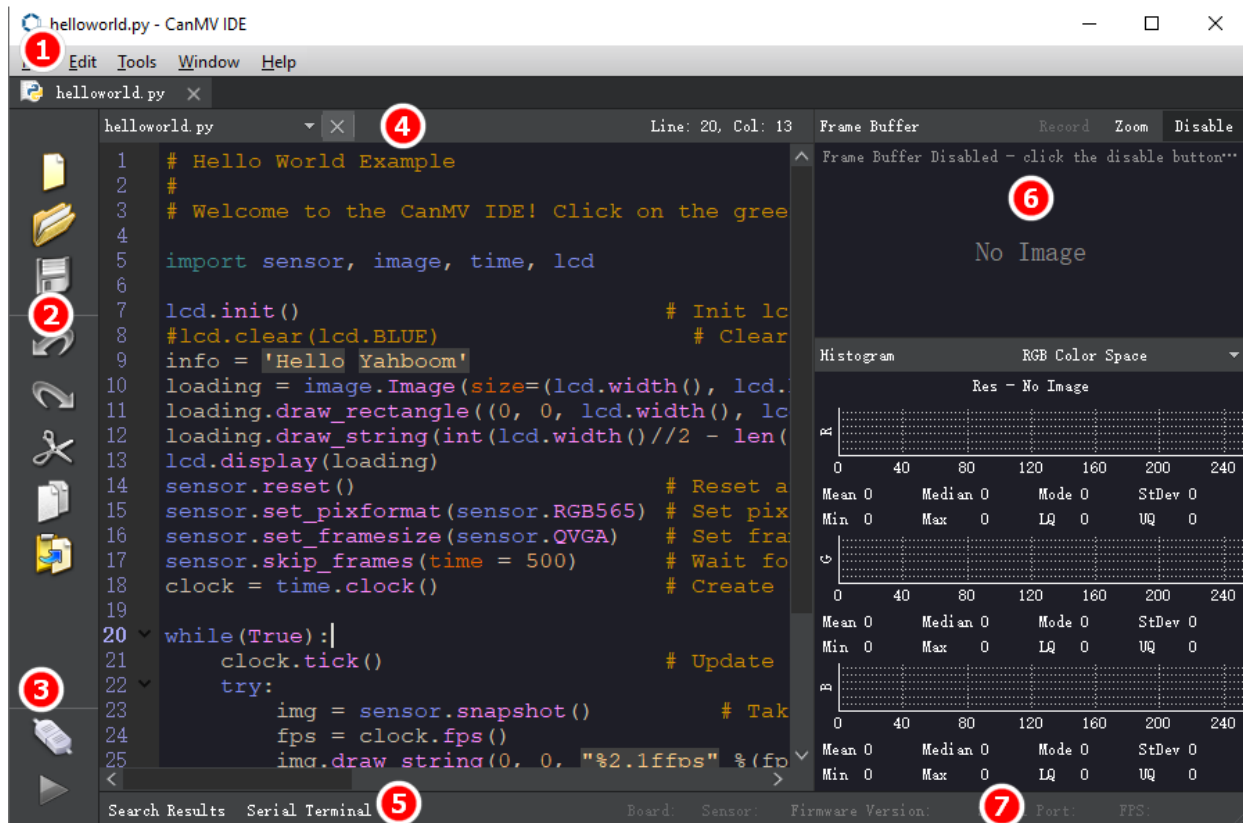
Cancel



Wait for the installation components to complete.



7.2.2、 Introduction to interface functions



Area ① Menu bar: operate files, use tools, etc.

Area ② Shortcut buttons: Shortcuts for some functions in **File** and **Edit** in area ①.

Area ③ Connecting Devices: Connecting devices and program control buttons.

Area ④ Code editing area: Edit the code to be run.

Area ⑤ Serial terminal: Display the debugging information printed by the serial port.

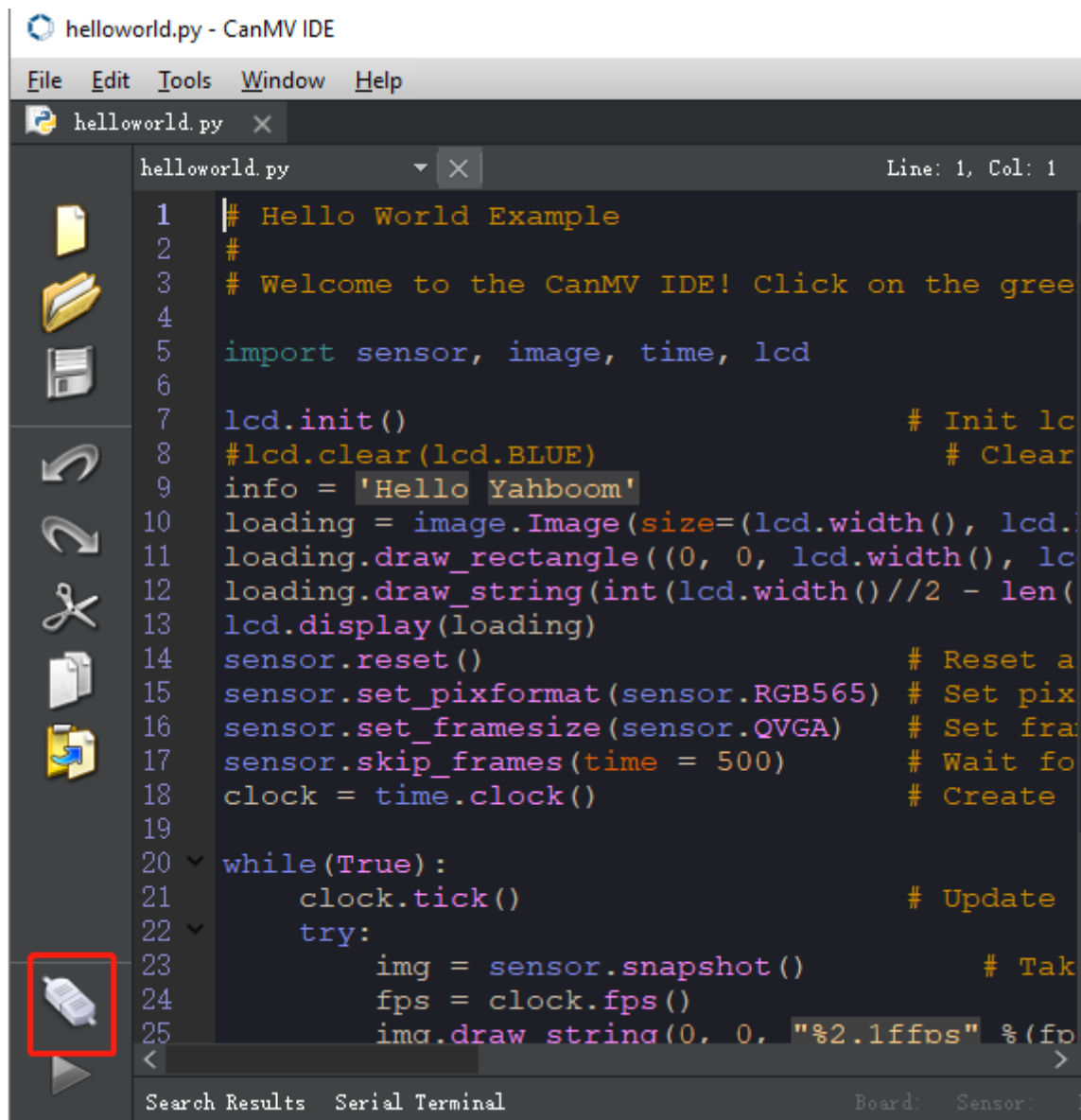
Area ⑥ Image Preview: Display the image preview of the camera.

Area ⑦ Firmware information: Display the connected serial port number and related information of the firmware.

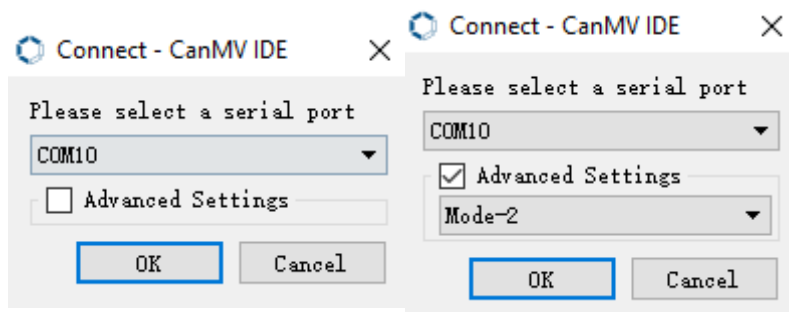
7.2.3、 connect device

Connect the K210 development board to the USB port of the computer through the TYPE-C data cable.

Then click the connect button in the lower left corner of CanMV IDE

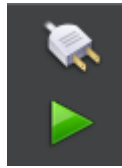


Select the serial port pops up, and select the serial port number corresponding to the K210 development board. If there are multiple serial ports, please confirm the corresponding serial port number and then click OK to open.



If you cannot connect, you can click Advanced Settings and select Mode-2.

A successful connection will turn the icon into a connected state, and the gray play button will turn green at the same time.

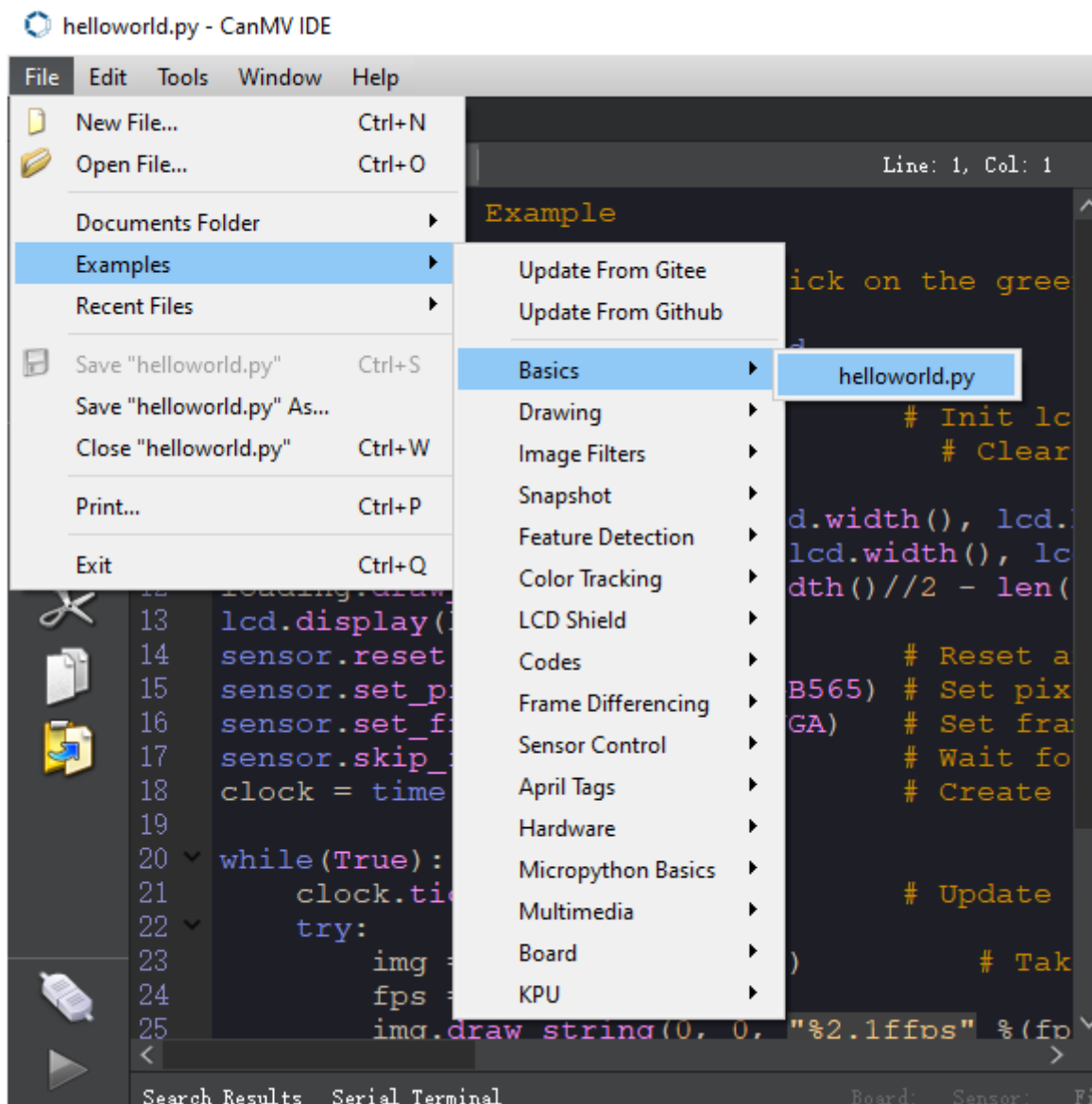


7.2.4、Temporary running program

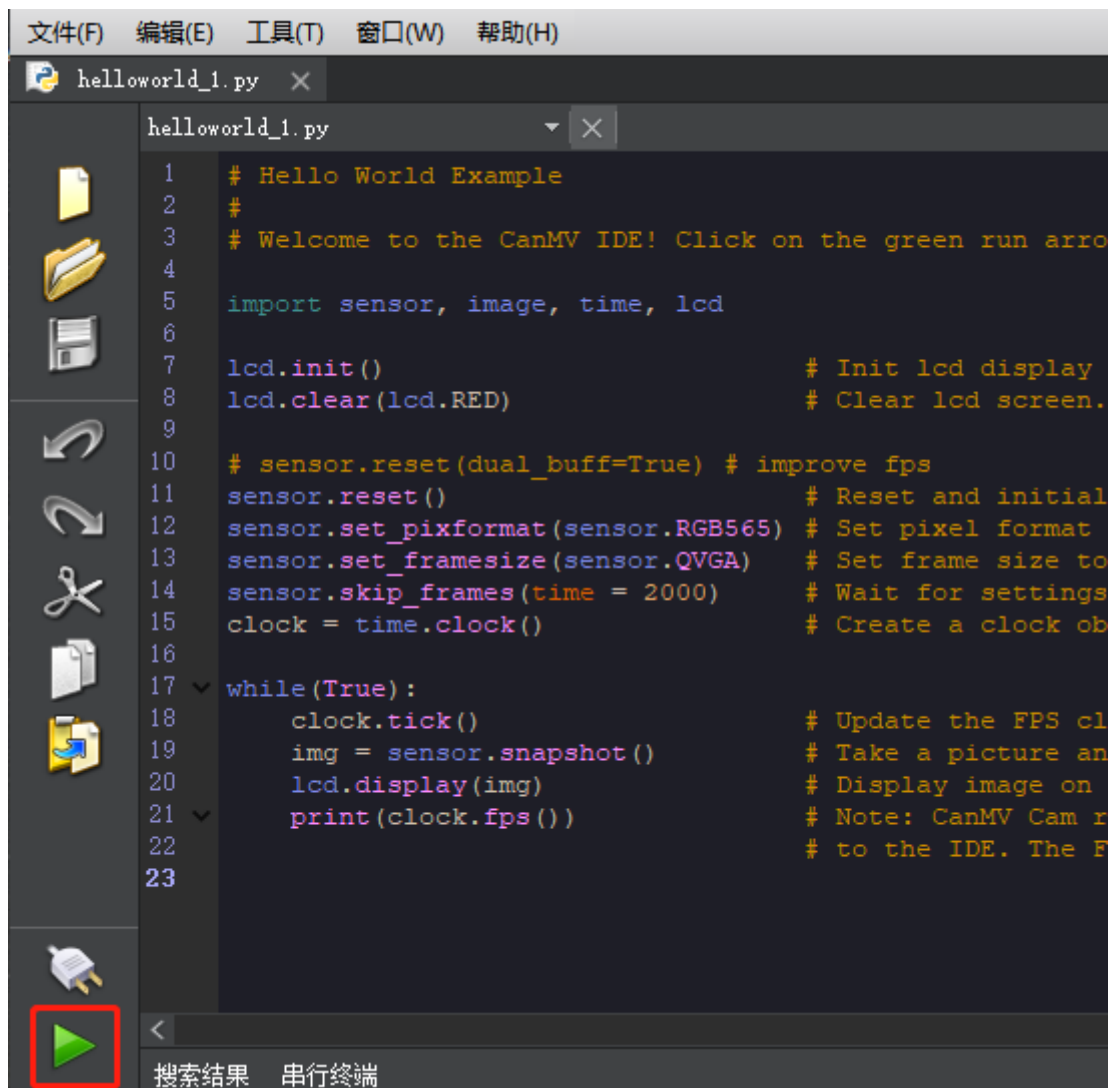
Note: The program running in this step will be lost and not saved after disconnecting, pressing the reset button or shutting down the machine.

After the connection is complete, you can see that the connection icon in the lower left corner changes to a connected symbol.

If the routine is not open, open File->Example->Basics->helloworld.py

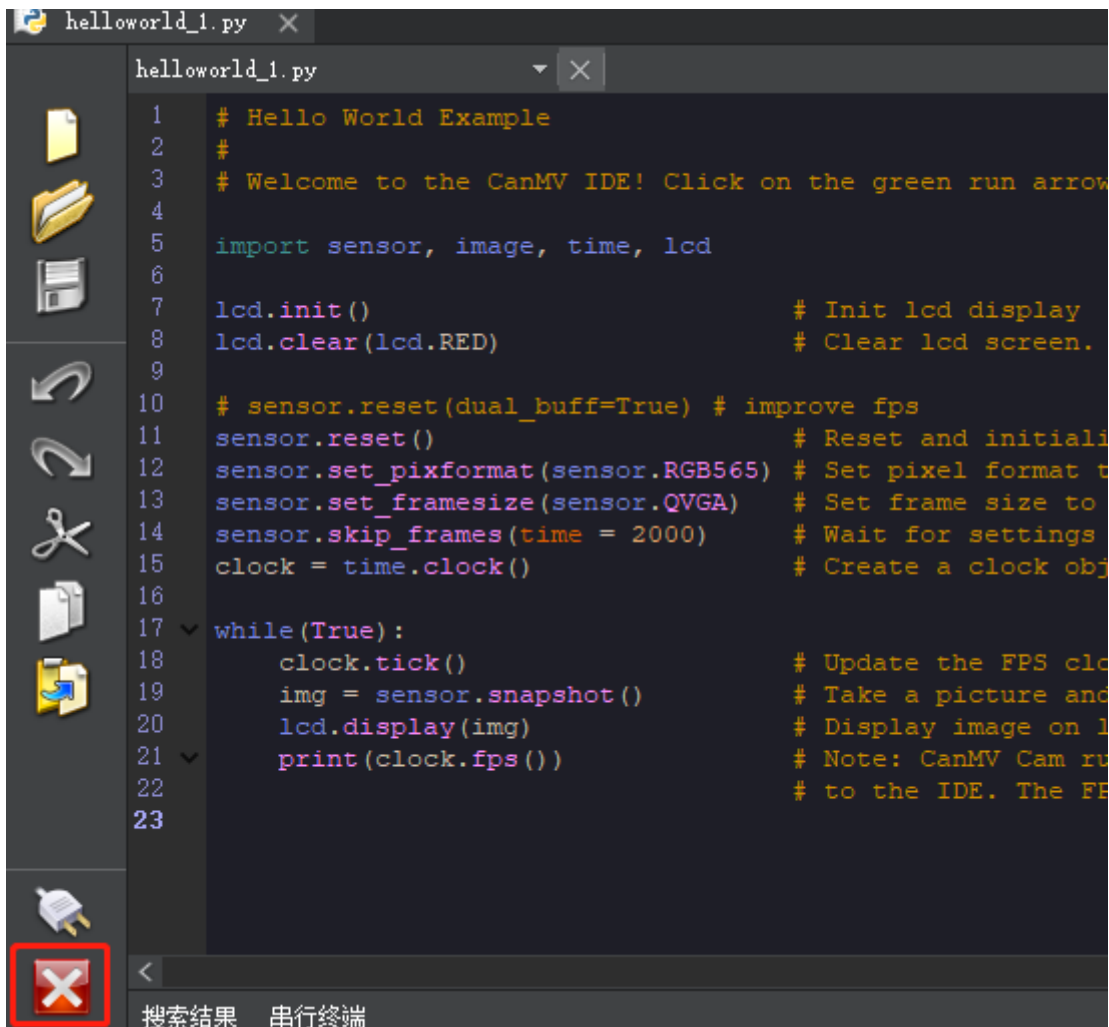


Click the green play button to run the program.



At this time, you can see the LCD displaying the camera image, and the camera image is also displayed in the upper right corner of the IDE.

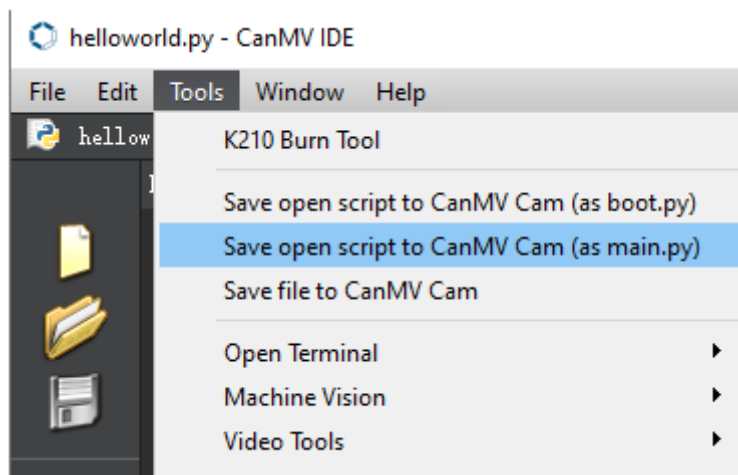
The green play button icon will turn into a red stop button, click once to stop the running program.



7.2.5、Boot up and run your own code

Note: The program in this step will run automatically after power on again.

In the case of keeping the connection, click Tools -> Save the currently opened script as (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 a TF card is inserted, the program will be saved to the TF card first, and the main.py file in the TF card will be run first.

