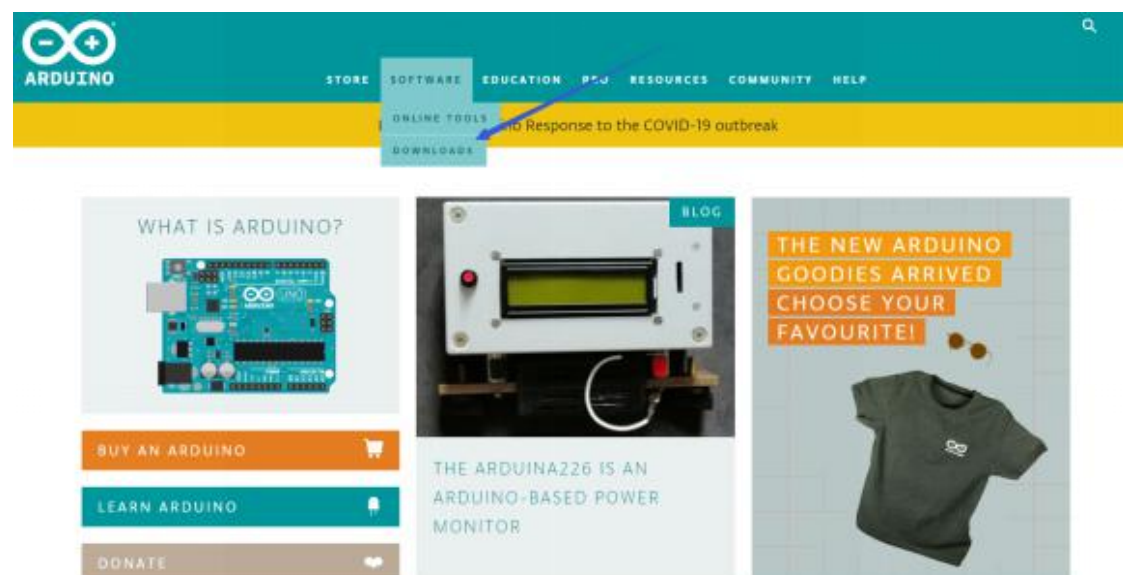# 3. Install Arduino IDE and Driver

(1) Installing Arduino IDE

When we get control board, we need to download Arduino IDE and driver firstly.

You could download Arduino IDE from the official website: https://www.arduino.cc/, click the **SOFTWARE** on the browse bar, click "DOWNLOADS" to enter download page, as shown below:

There are various versions Of IDE for Arduino, just download a version that compatible with your system, here we will show you how to download and install the windows version Arduino IDE.

There are two versions of IDE for WINDOWS system, you can choose between the Installer (.exe) and the Zip packages. We suggest you use the first one that installs directly everything you need to use the Arduino Software (IDE), including the drivers. With the Zip package you need to install the drivers manually. The Zip file is also useful if you want to create a portable installation.
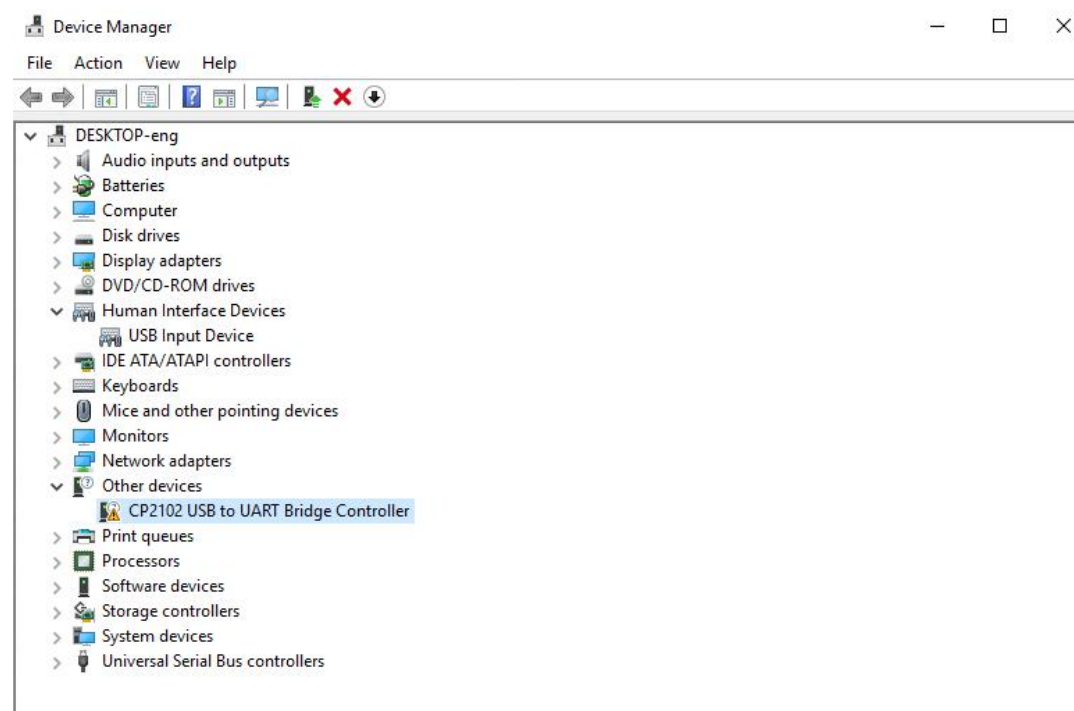

You just need to click JUST DOWNLOAD.
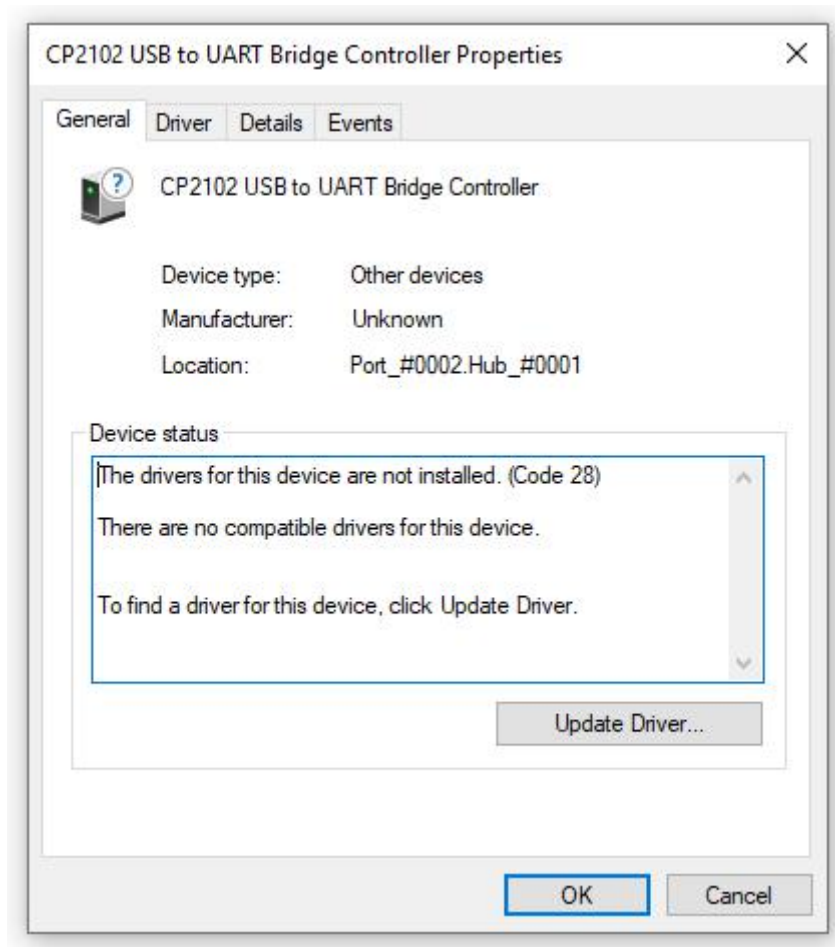
(2) Installing V4.0 board Driver

Let's install the driver of keyestudio V4.0 board. The USB-TTL chip on V4.0 board adopts CP2102 serial chip. The driver program of this chip is included in Arduino 1.8 version and above, which is convenient. Plug on USB port of board, the computer can recognize the hardware and automatically install the driver of CP2102.

If install unsuccessfully, or you intend to install manually, open the device manager of computer. Right click Computer----- Properties----- Device Manager
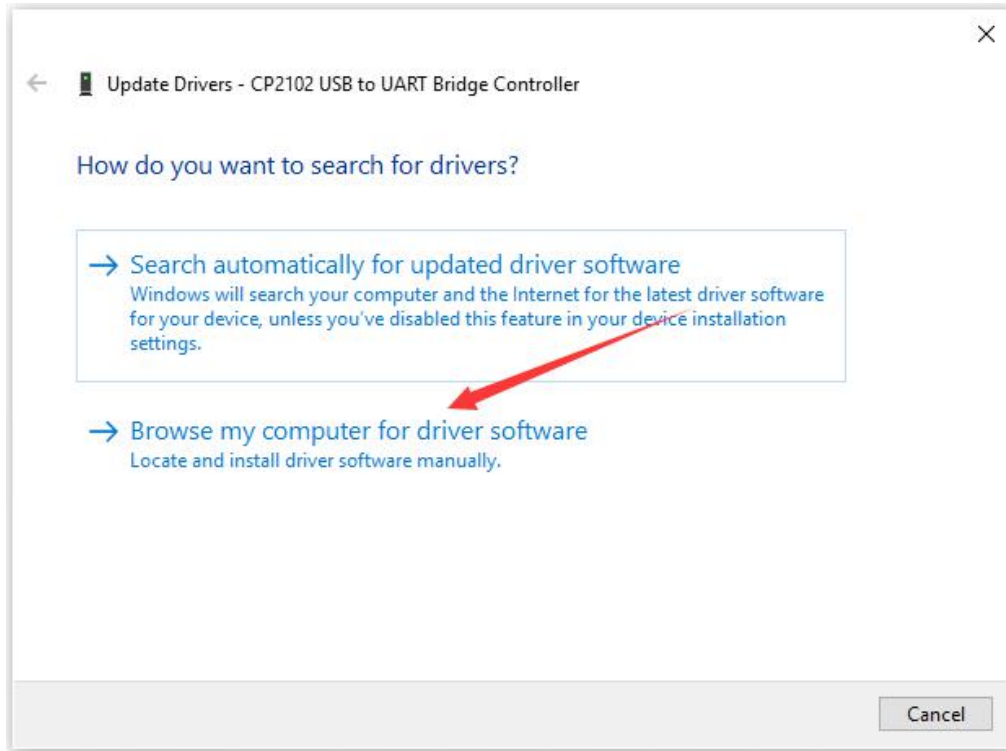

There is a yellow exclamation mark on the page, which implies installing unsuccessfully. Then we double click the hardware
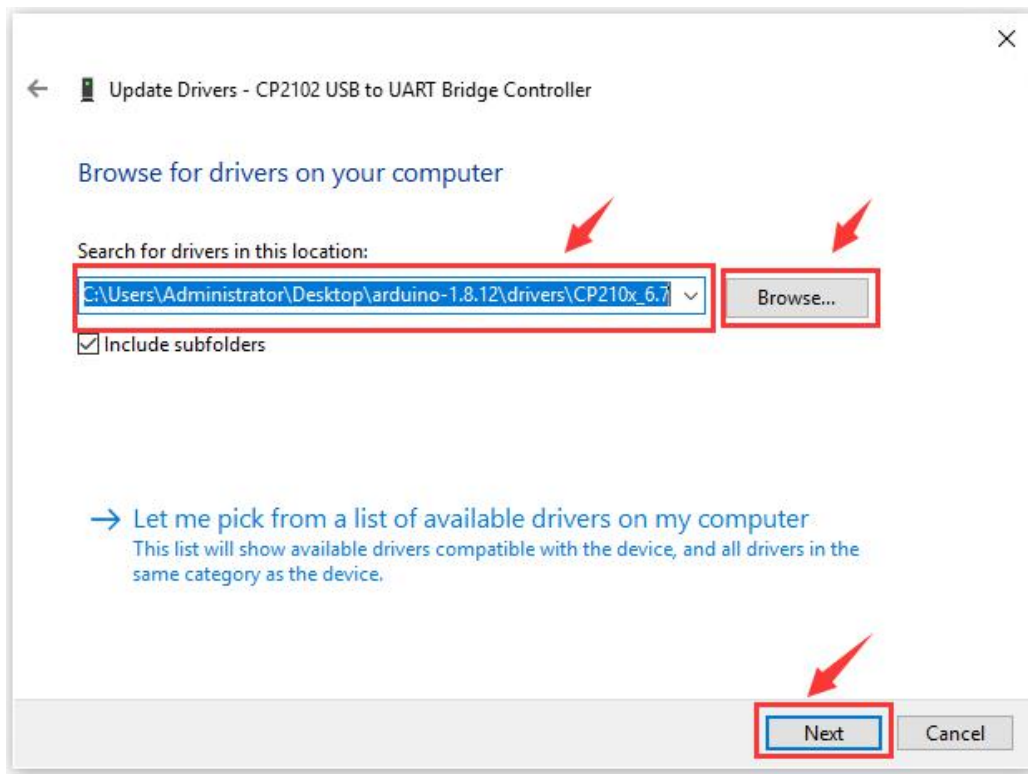
and update the driver.

Click "OK" to enter the following page, click "browse my computer for updated driver software", find out the installed or downloaded ARDUINO software. As shown below:
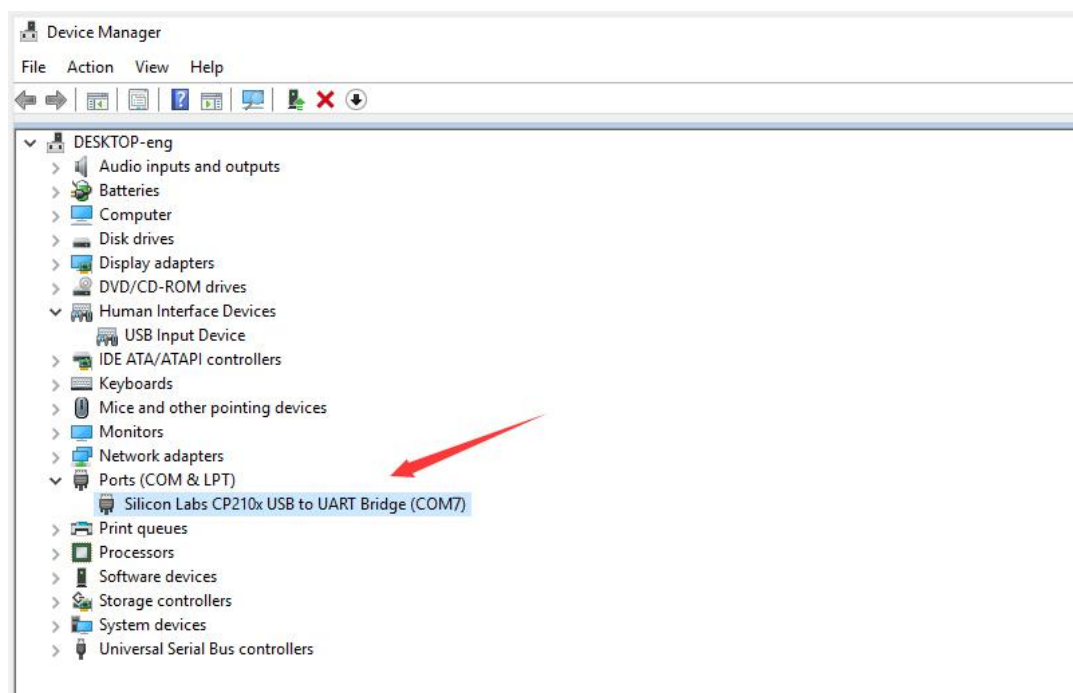
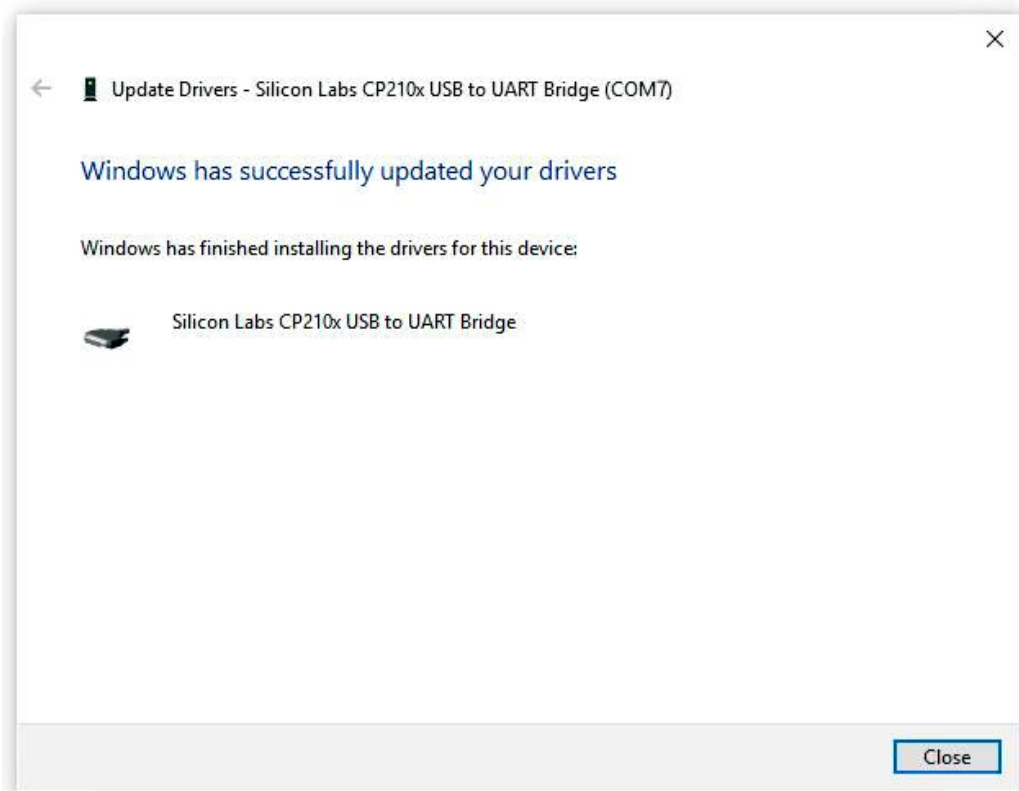There is a DRIVERS folder in Arduino software installed

package（ arduino-1.8.12 ）, open driver folder and you can

see the driver of CP210X series chips.

We click "Browse", then find out the driver folder, or you

could enter "driver" to search in rectangular box, then click

"next", the driver will be installed successfully. (I place

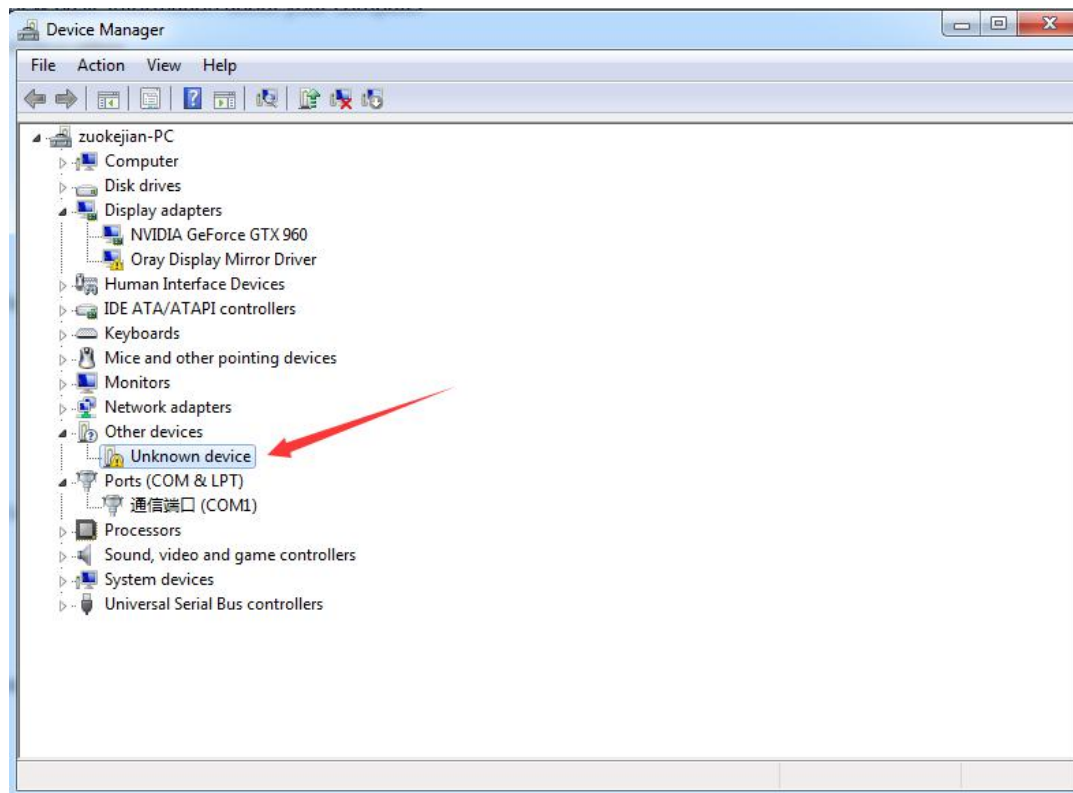Arduino software folder on the desktop, you could follow

my way)

Open device manager, we will find the yellow exclamation mark disappear. The driver of CP2102 is installed successfully.

Update Drivers - Silicon Labs CP210x USB to UART Bridge (COM7)

Windows has successfully updated your drivers

Windows has finished installing the drivers for this device:

Silicon Labs CP210x USB to UART Bridge

Close

Device Manager

File   Action   View   Help

- DESKTOP-eng
  - Audio inputs and outputs
  - Batteries
  - Computer
  - Disk drives
  - Display adapters
  - DVD/CD-ROM drives
  - Human Interface Devices
    - USB Input Device
  - IDE ATA/ATAPI controllers
  - Keyboards
  - Mice and other pointing devices
  - Monitors
  - Network adapters
  - Ports (COM & LPT)
    - Silicon Labs CP210x USB to UART Bridge (COM7)
  - Print queues
  - Processors
  - Software devices
  - Storage controllers
  - System devices
  - Universal Serial Bus controllers

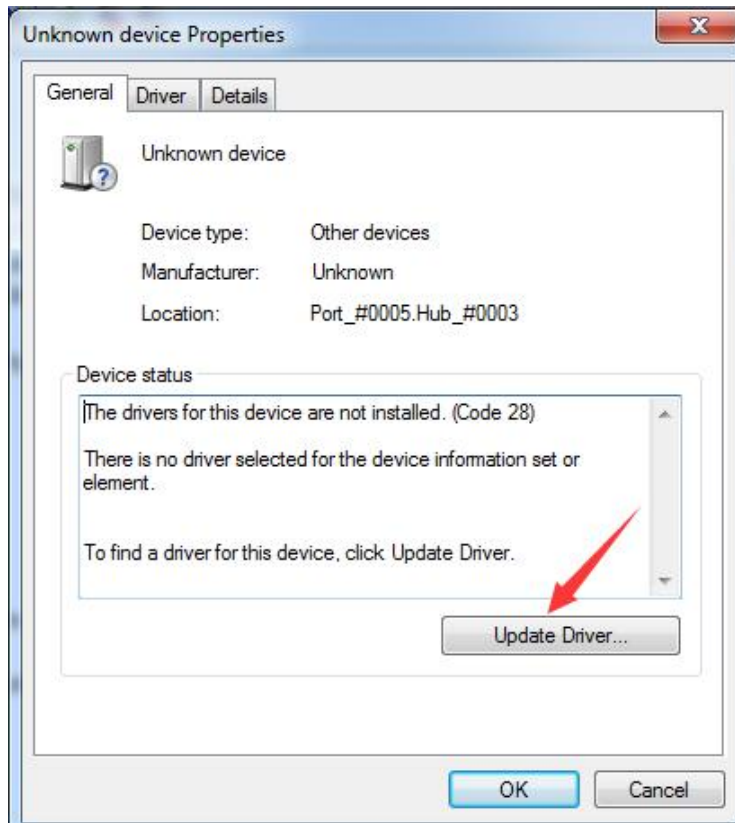**(3) Install other visions of driver**

If your development board is Arduino board, install the driver as follows:

Step 1: Plug in the development board, click Computer----- Properties----- Device Manager, you could see the unknown device is shown.
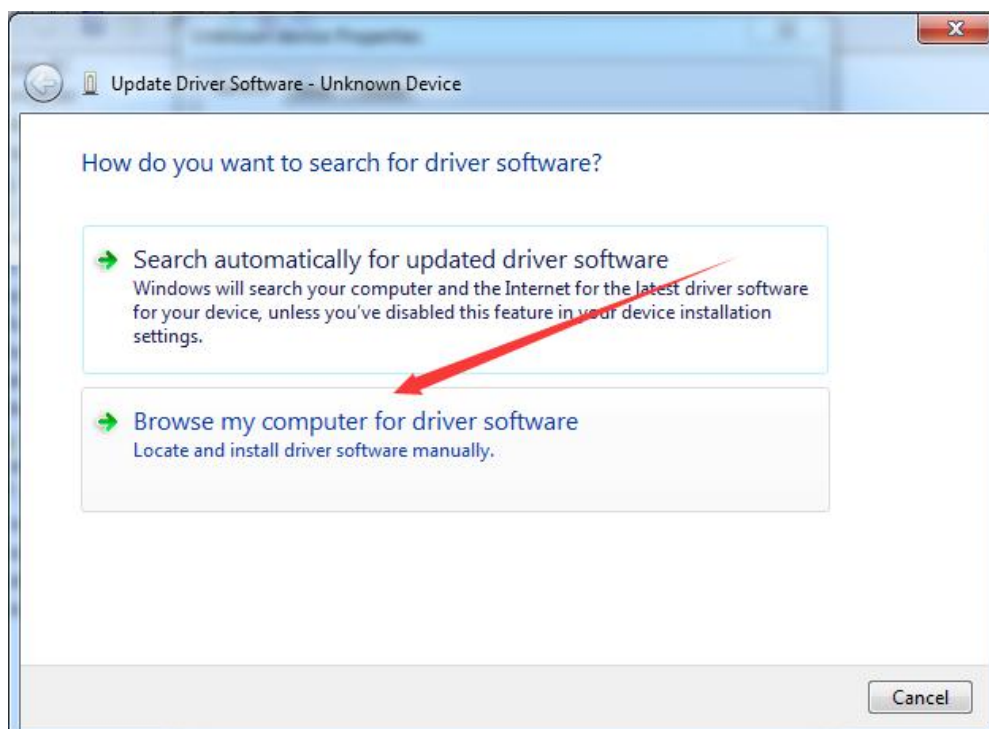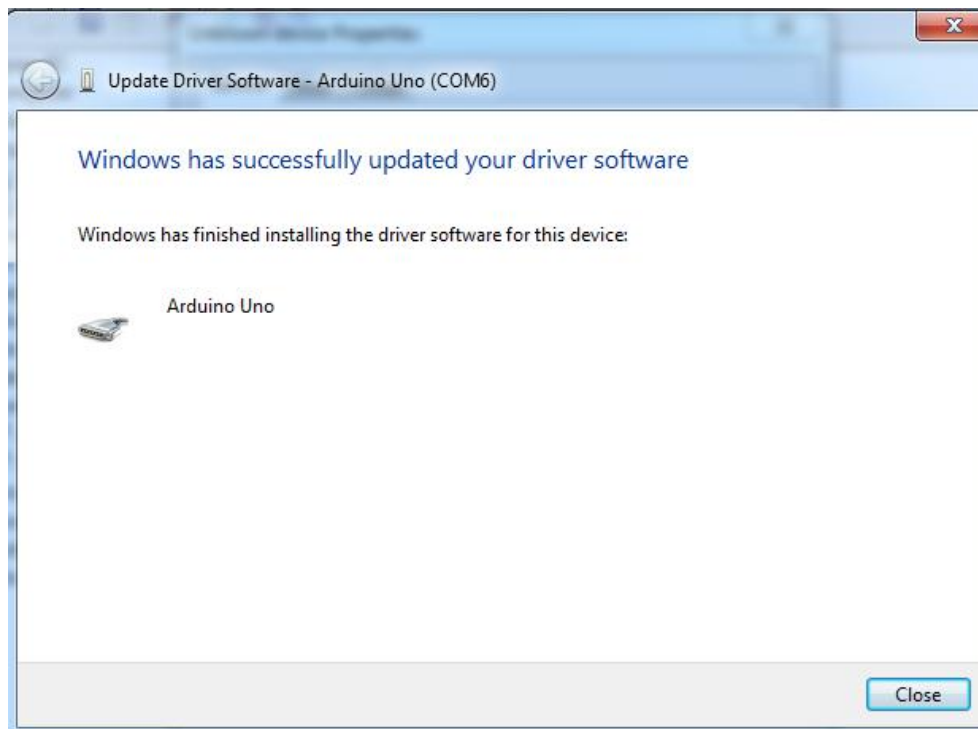

Step 2: Update the driver

Step 3: click " browse my computer for updated driver software"

Step 4: find out the folder where the ARDUINO software is installed, click **drivers** folder and tap "Next"

Step 5: the driver is installed successfully.

The device manager shows the serial port of Arduino.