This is a short and easy manual on how to update your MK4 Control Panel firmware.

STEP 1

Follow this link to https://www.arduino.cc and download and install latest Arduino IDE software

First select SOFTWAREand choose DOWNLOADS

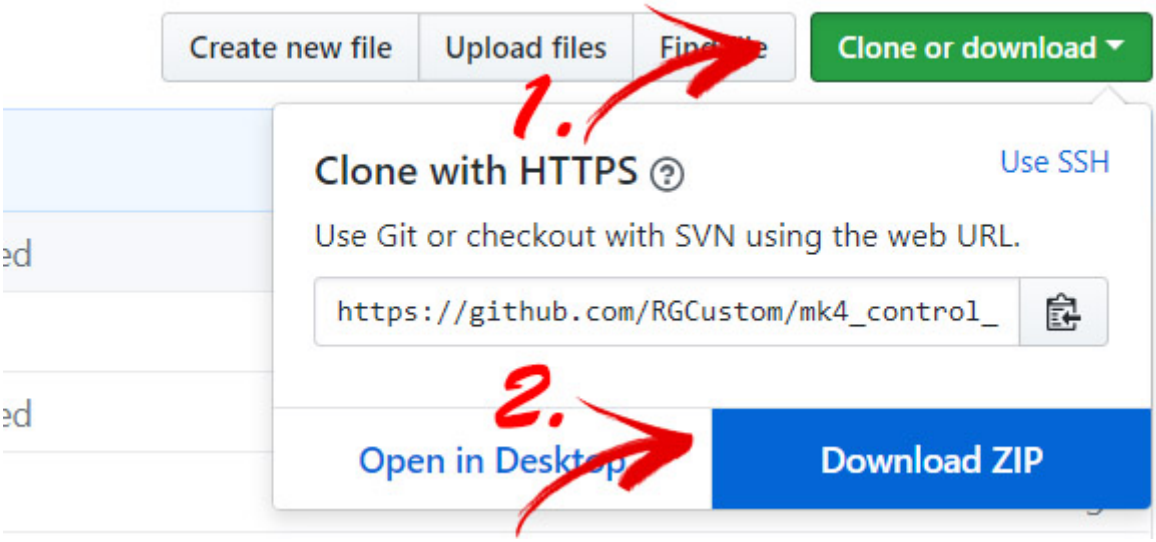
Then select Windows installer

Install Arduino IDE, following installer instructions.

STEP 2

Go to MK4 Control Panel main GitHub
directory https://github.com/RGCustom/mk4_control_panel and download firmware sketches

- First click on Clone or Download green buttons and select Download .ZIP

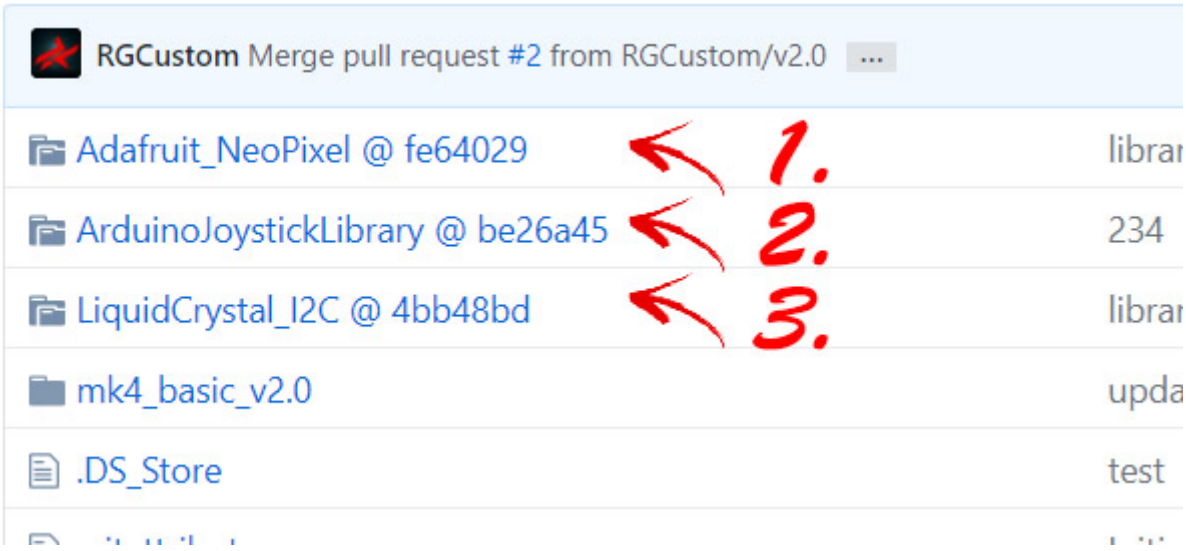


STEP 3

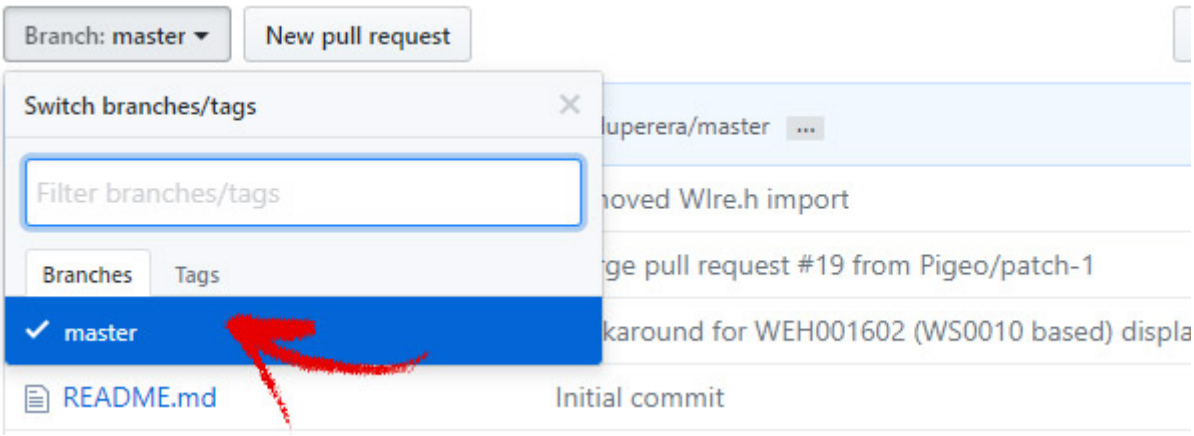
Now download and install needed libraries (for MK4 basic only ArduinoJoystickLibrary needed)

- Libraries, included as submodules wont download on previous step, so they must be downloaded separately.

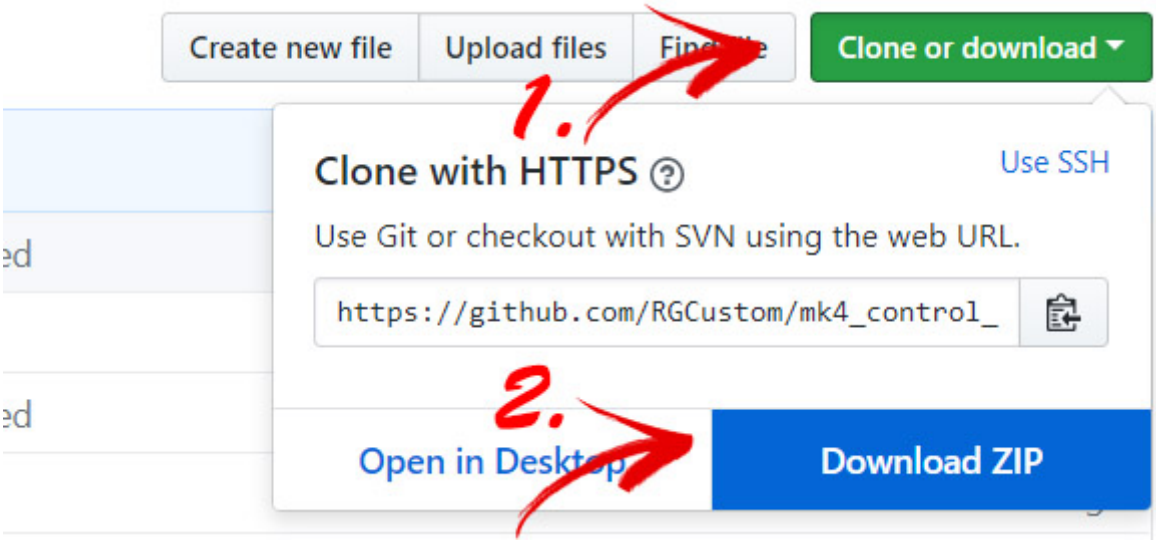
- Clicking on library will lead you to its location.



- Click Branch button and select master to get the latest library.



Donwload library same as you downloaded main sketch.



Install librariesin your arduino libraries folder.

Arduino manual on installing libraries https://www.arduino.cc/en/Guide/Libraries#toc2

ArduinoJoystick library has a default installation bat file.

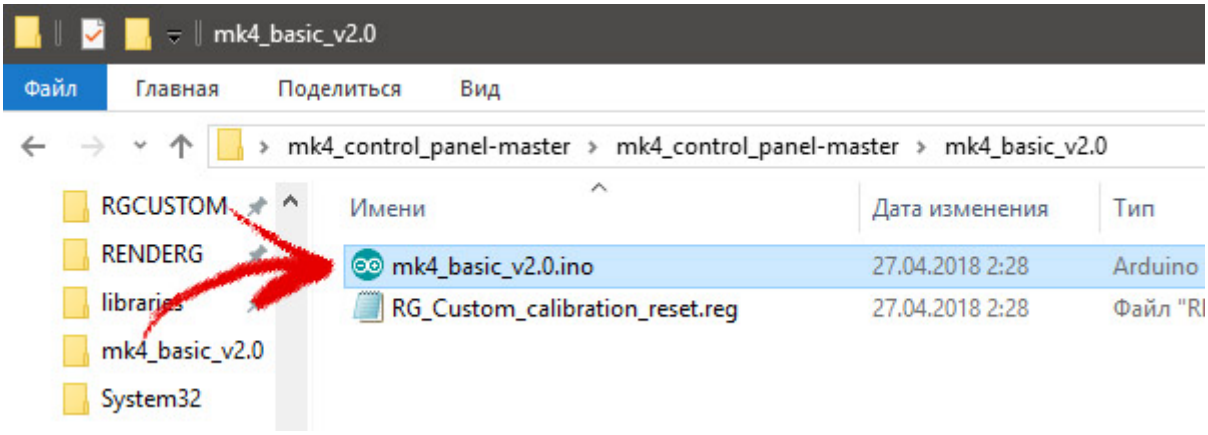
Default libraries location (you can just unzip them there) is C:\Users\ your user name \Documents\Arduino\libraries or just go to My Documents > Arduino > libraries

STEP 4

Unzip main sketch you downloaded in to a folder.

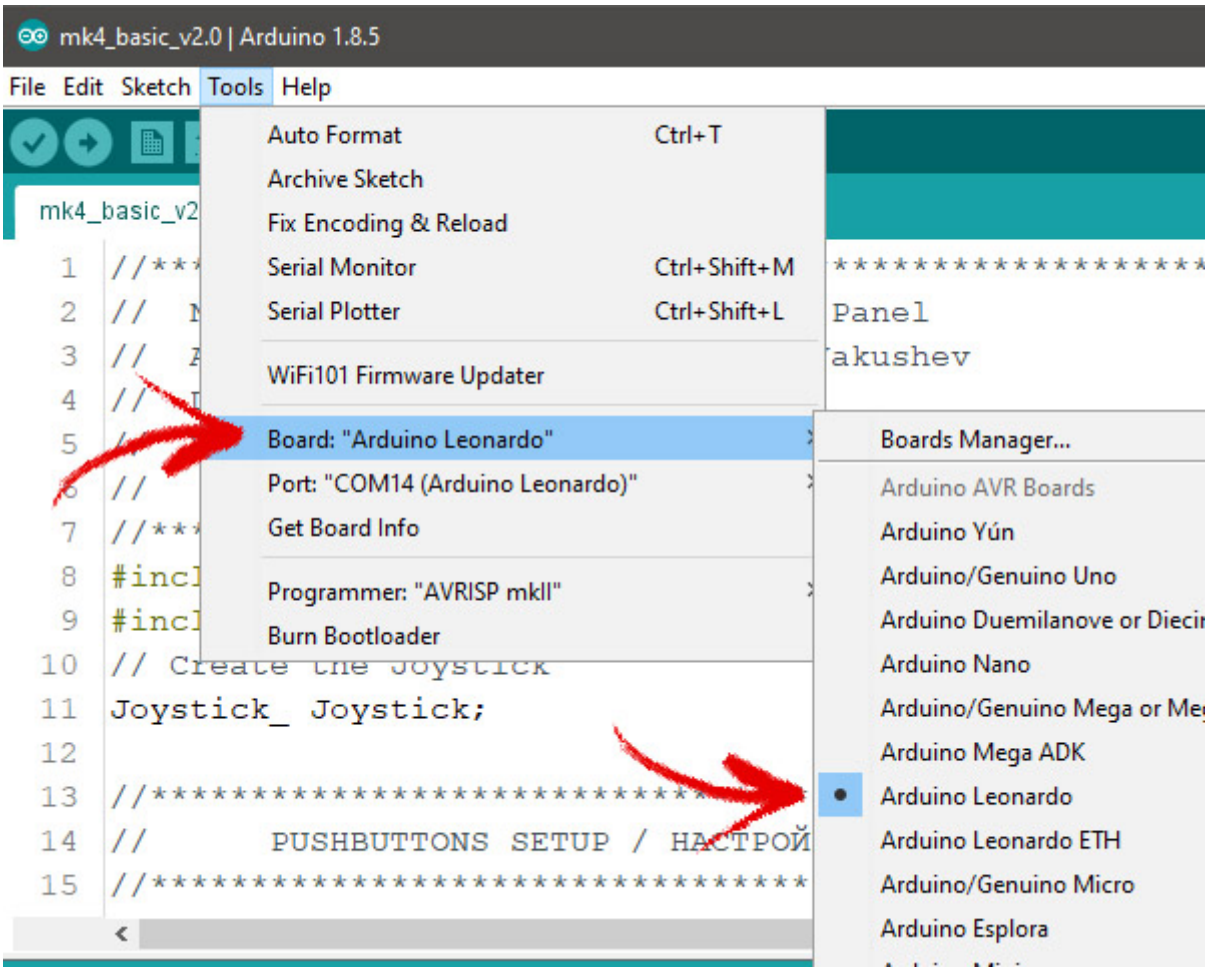
Select folder with a proper firmware sketch (it will start with device model, like mk4_basic_v2.0

Open sketch .INO file.

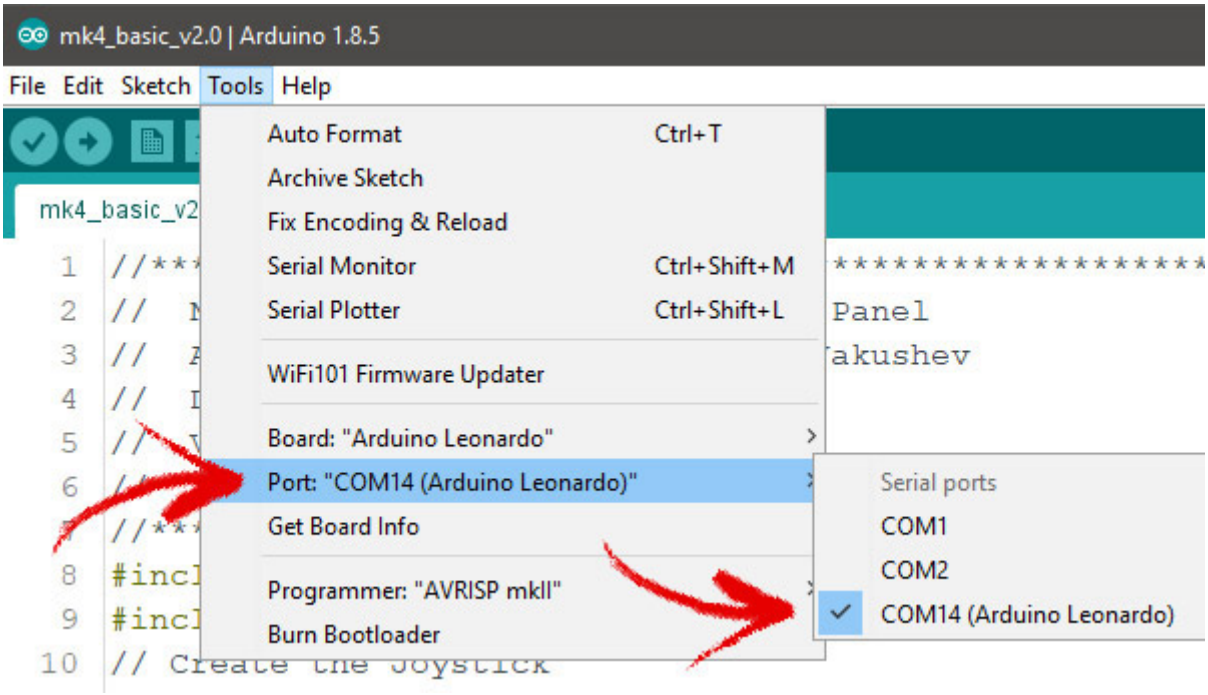


Arduino IDE will open sketch.

Open Tools menu and select Board -> Arduino Leonardo



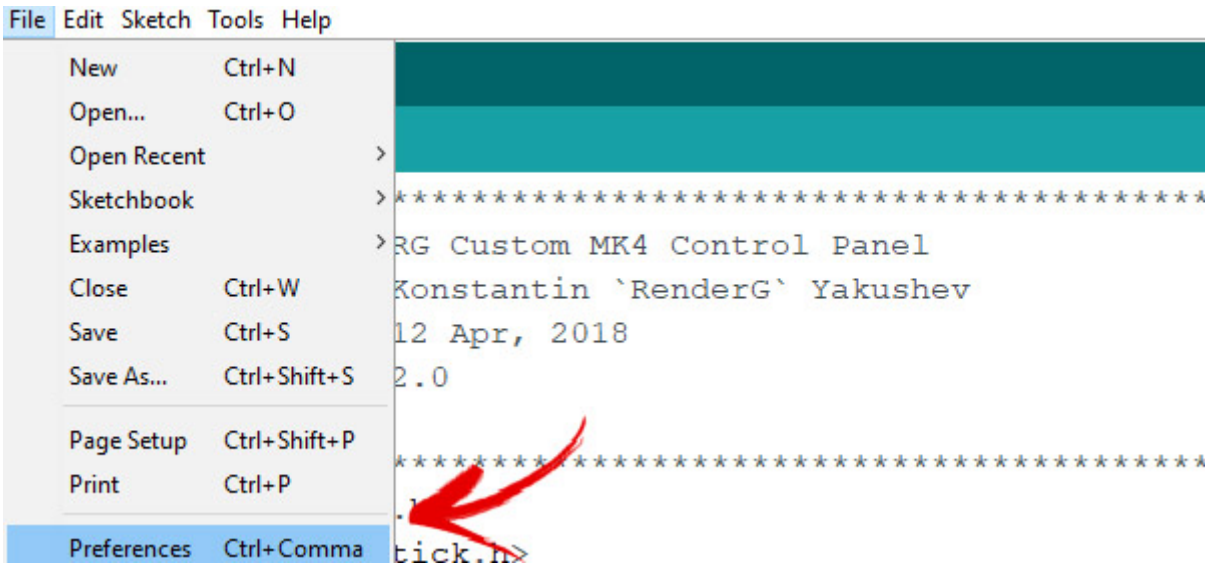
Also select corresponding port number in same menu.



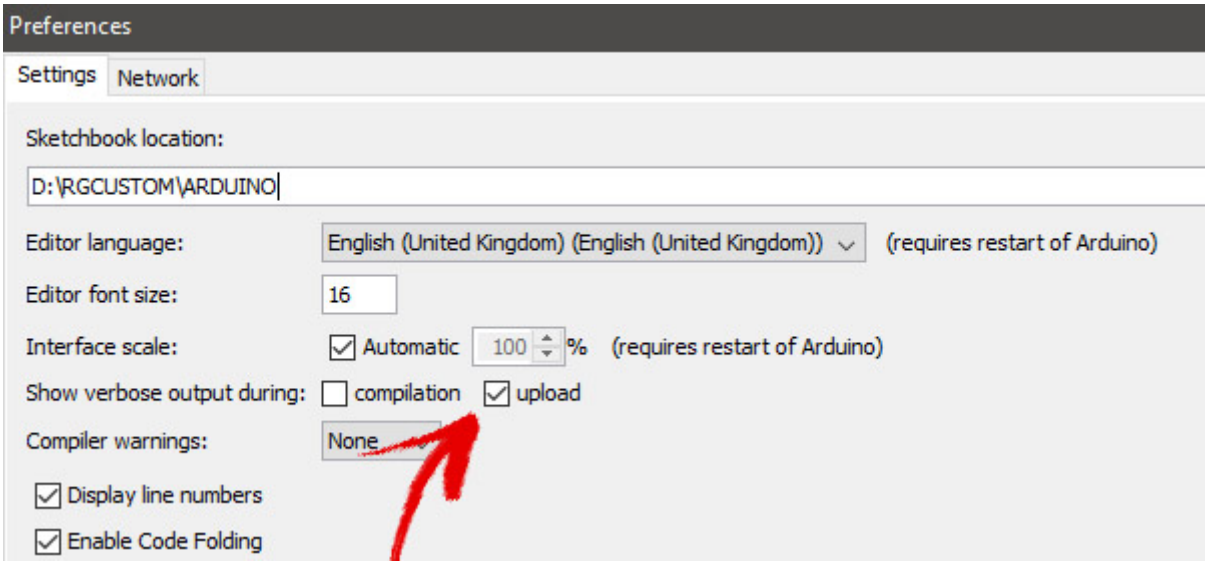
STEP 5

Prepare Arduino IDE to upload firmware.

Select Preferences from File menu

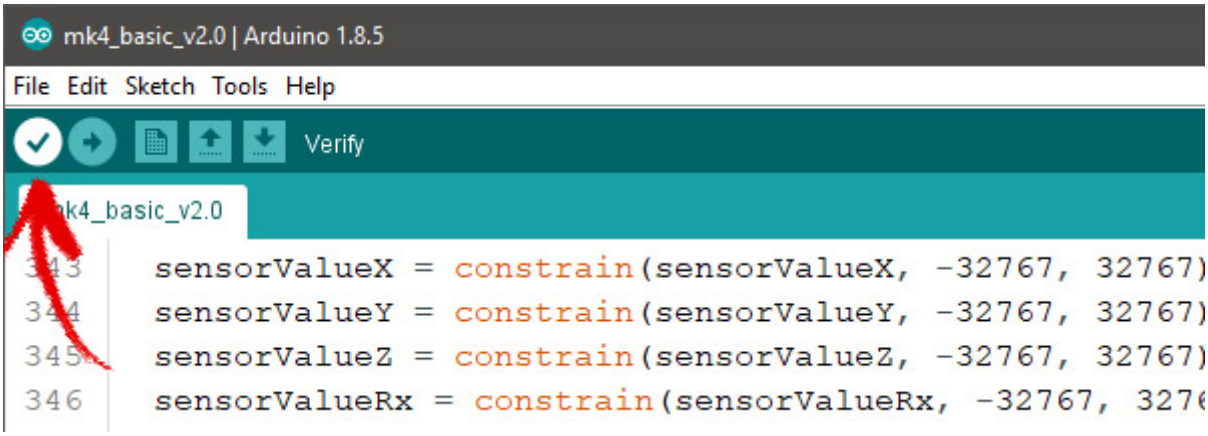


And in Preferences window mark "Show verbose otput during: upload" checkbox

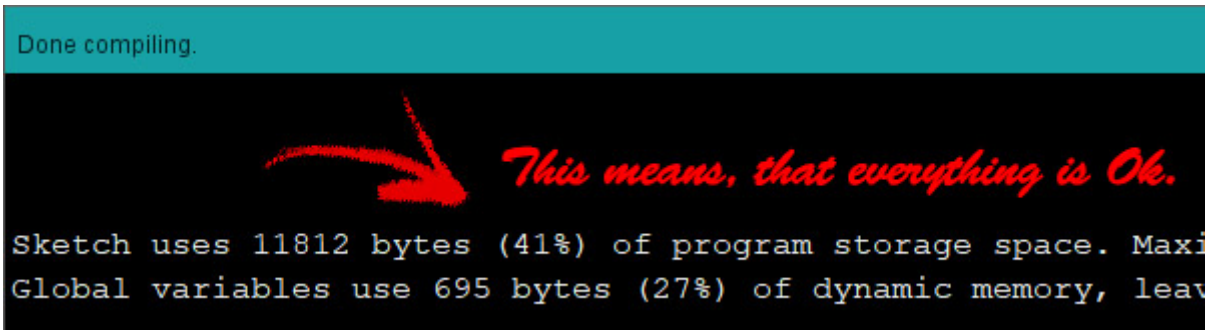


STEP 6

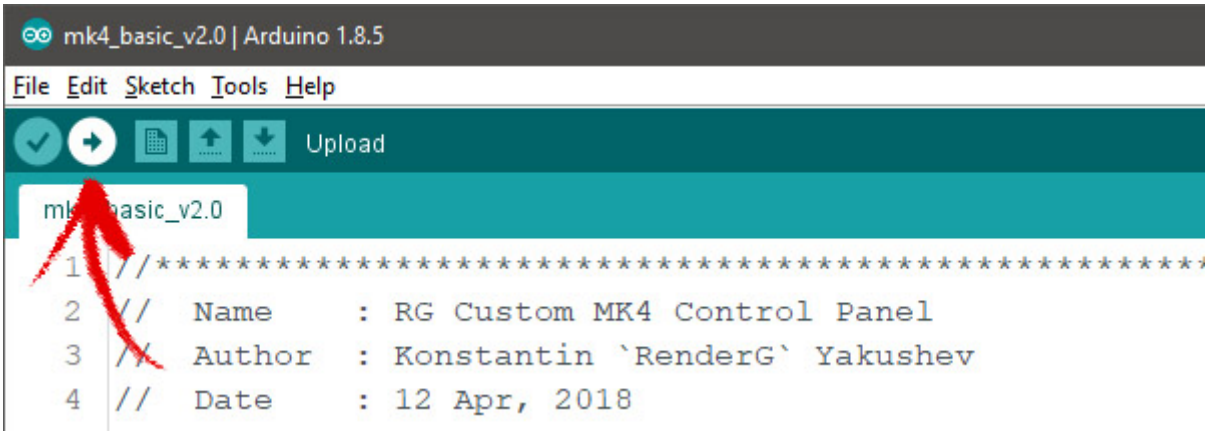
Verify sketch by pressing VERIFY button



If everything is Ok, you will see smth like this



After that hit upload button

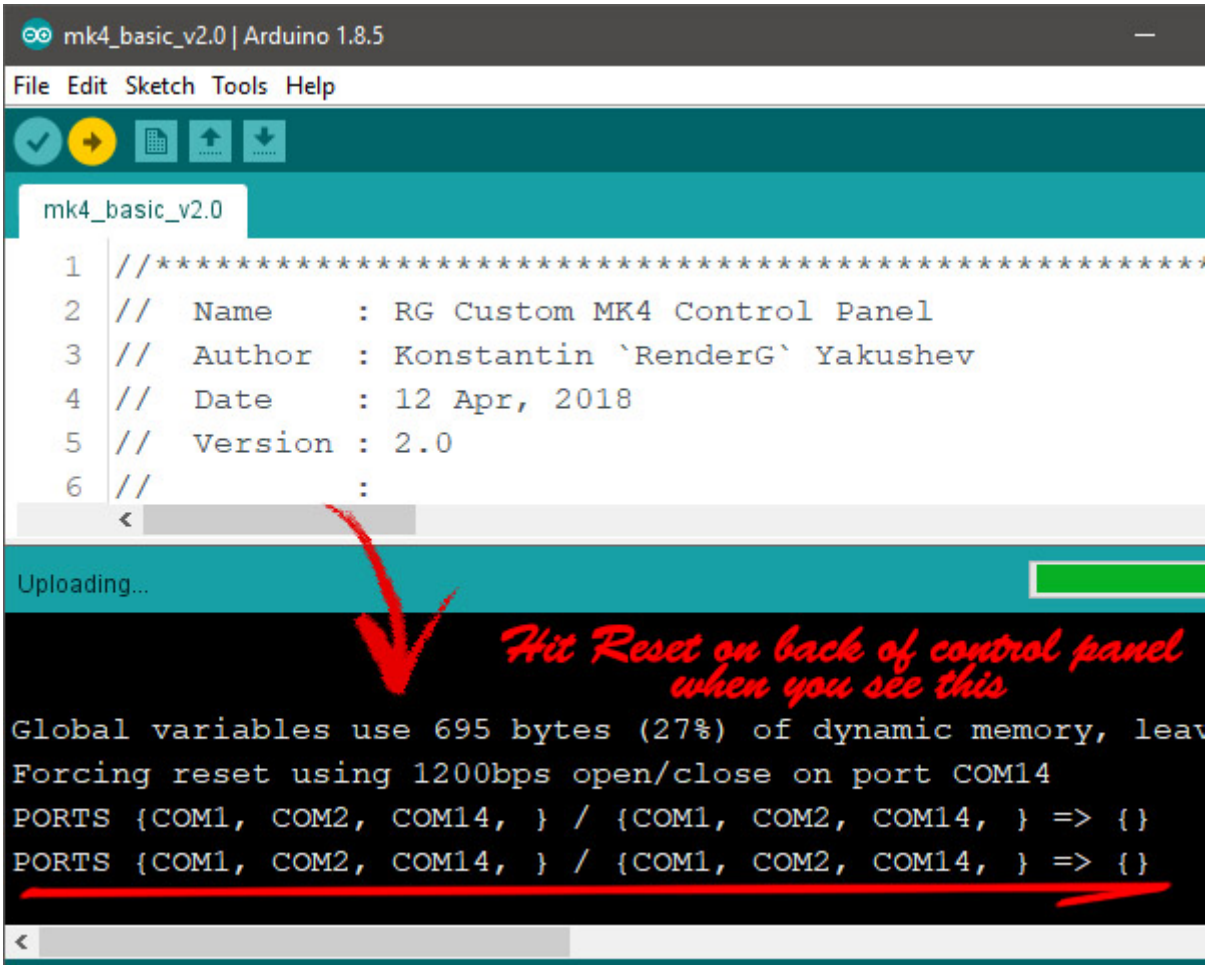


- After firmware will compile, Arduino IDE will start looking for controller in bootloader state

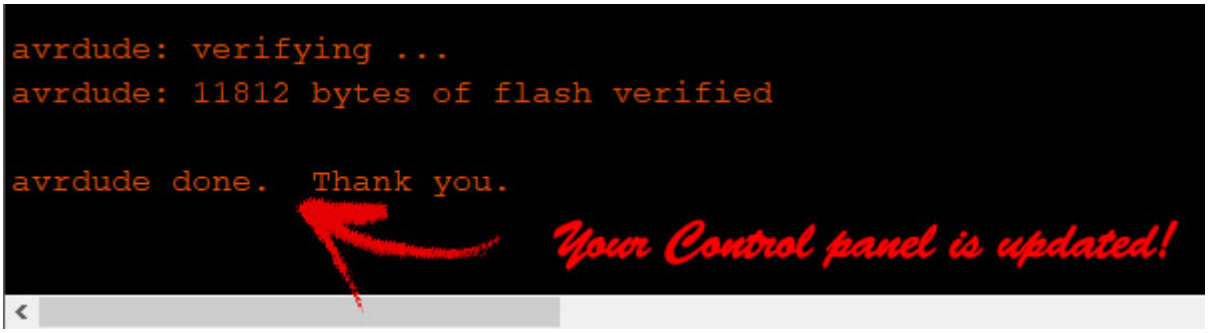
- And will start scanning ports for arduino, showing smth like

PORTS {COM1, COM2, COM14, } / {COM1, COM2, COM14, } => {} PORTS {COM1, COM2, COM14, } / {COM1, COM2, COM14, } => {}

- This is when you have to push RESET button o the back of your device.



- After upload will be finished, your device will reboot and will be updated.


avrdude: verifying ...
avrdude: 11812 bytes of flash verified
avrdude done. Thank you.
Your Control panel is updated!