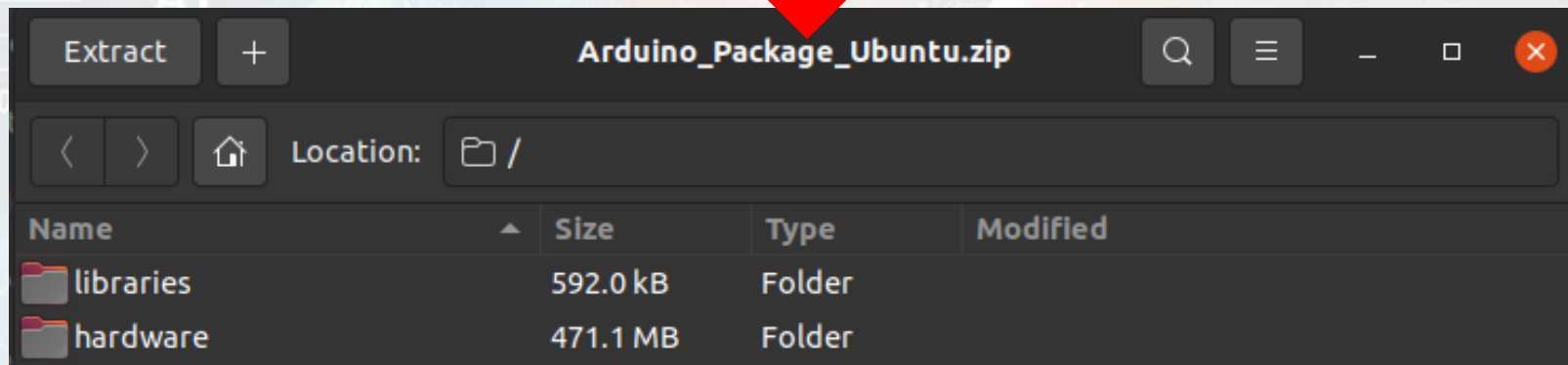
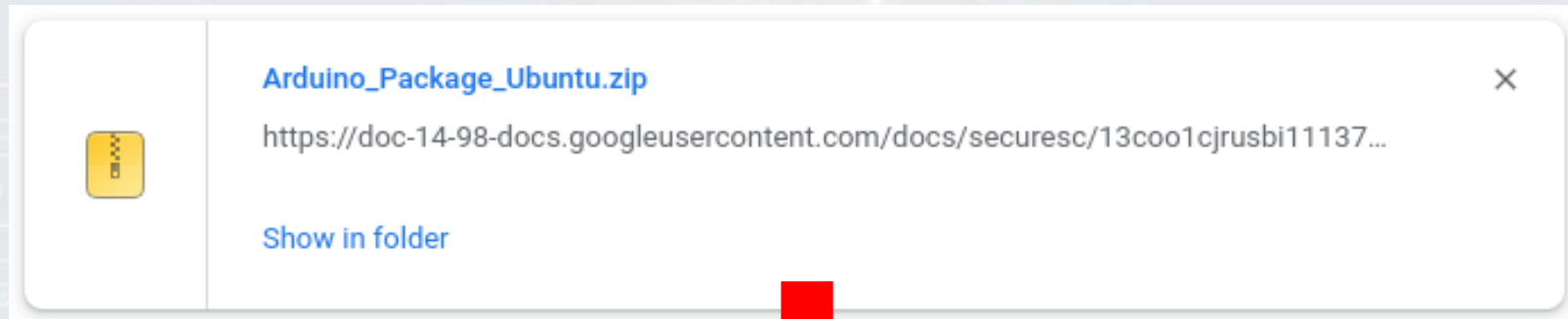


STM32 Arduino Coding on Raspberry Pi By TESR

ROS2

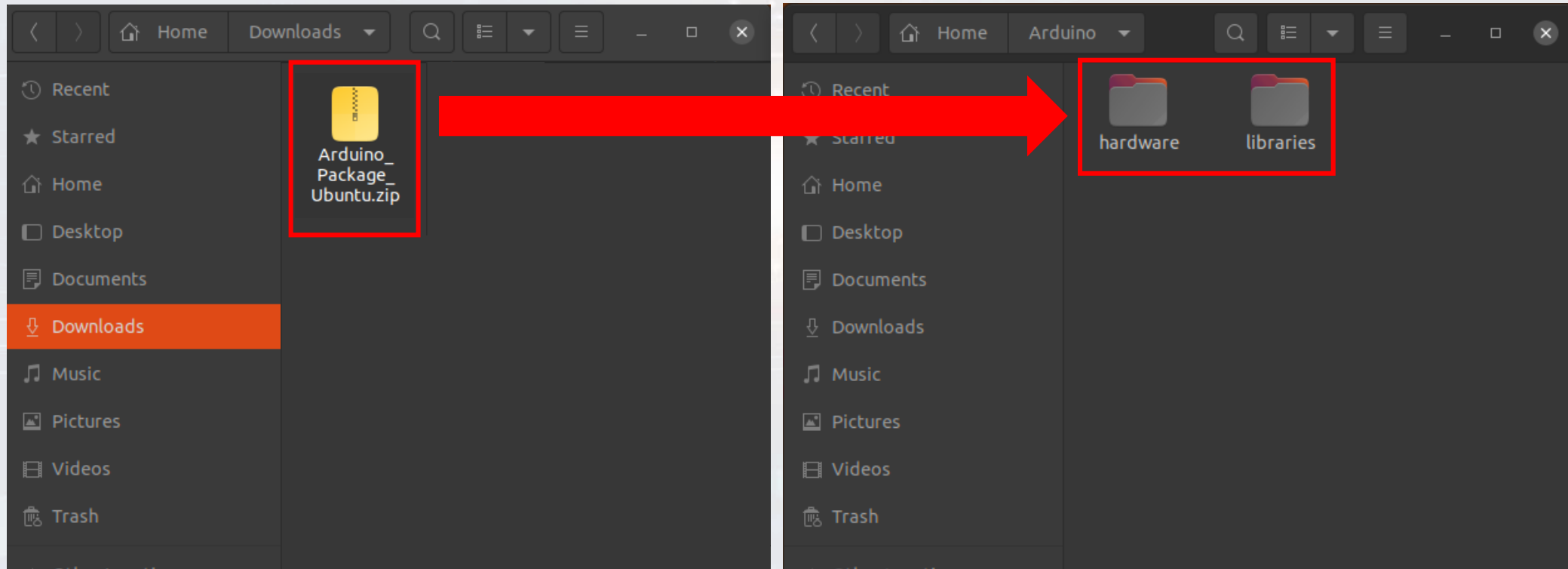
Download **hardware** and **library** folder

- Download hardware and library folder.
 - Download: [Link](https://doc-14-98-docs.googleusercontent.com/docs/securesc/13coo1cjrusrbi11137...)



Extract downloaded file

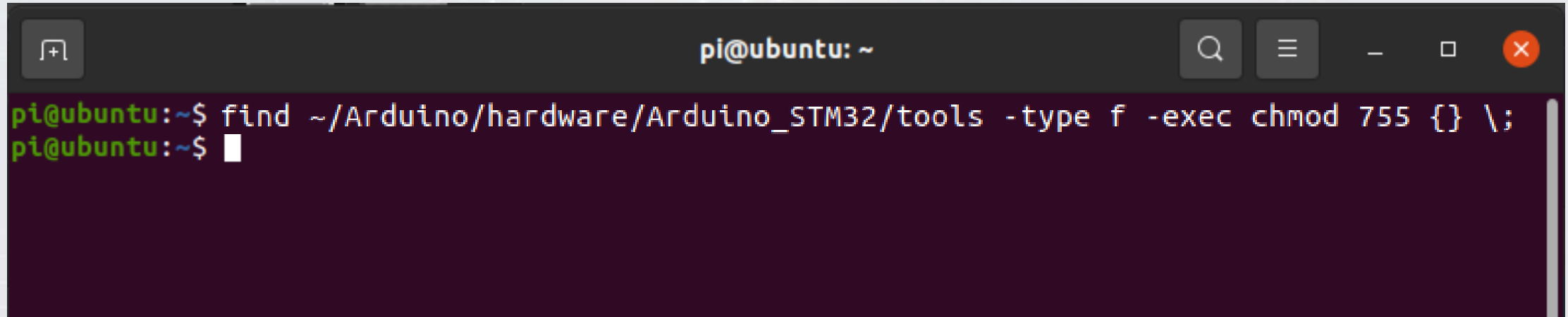
- Extract file to get folder "**hardware**" and "**libraries**". And then, move Extracted folder to "**~/Arduino**":



Verify file hardware file

- After download hardware and library, give the permission to file using:

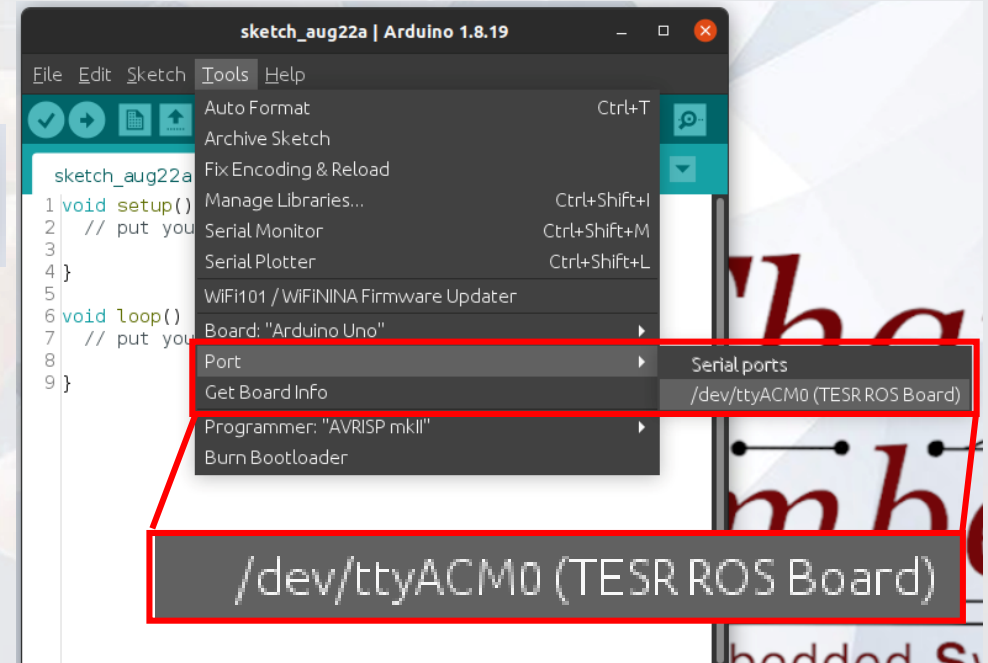
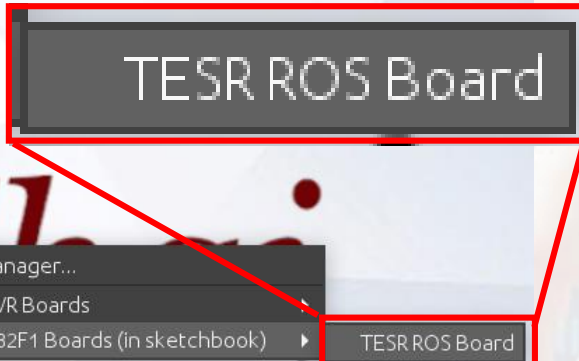
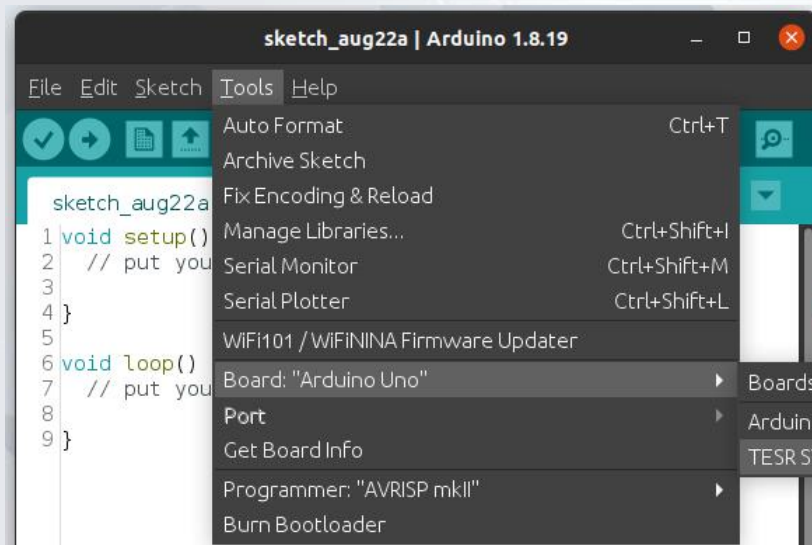
```
find ~/Arduino/hardware/Arduino_STM32/tools -type f -exec chmod 755 {} \;
```

A terminal window titled 'pi@ubuntu: ~' with standard window controls. The prompt is 'pi@ubuntu:~\$'. The command 'find ~/Arduino/hardware/Arduino_STM32/tools -type f -exec chmod 755 {} \;' has been entered and executed. The prompt now shows 'pi@ubuntu:~\$' followed by a cursor.

```
pi@ubuntu:~$ find ~/Arduino/hardware/Arduino_STM32/tools -type f -exec chmod 755 {} \;
pi@ubuntu:~$
```

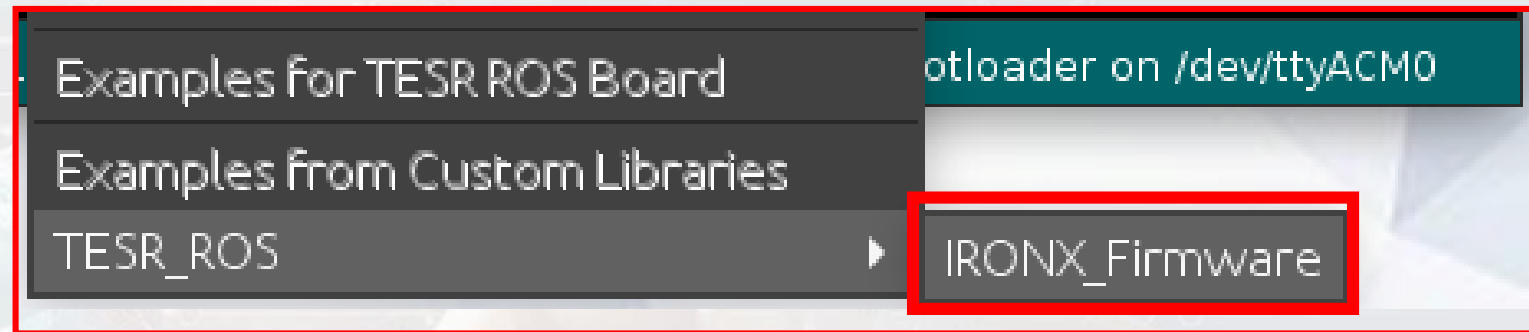
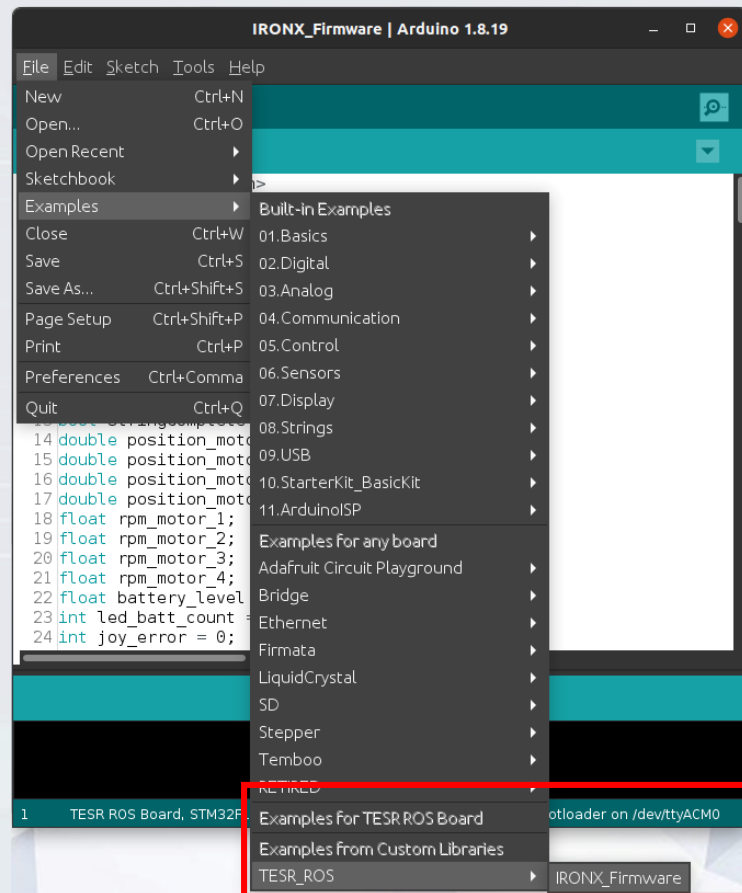
Arduino Coding on Raspberry Pi

- Open Arduino IDE on Raspberry Pi and then, Select "**Tools**"
 - Select Board as "**TESR ROS Board**"
 - Select COM port as **"/dev/ttyACM0 (TESR ROS Board)"**
- *COM port may change if STM32 board get reset or lost connect from abnormal operate.*



Arduino Coding on Raspberry Pi


- For example, Go to "File > Examples > TESR_ROS > IRONX_Firmware"

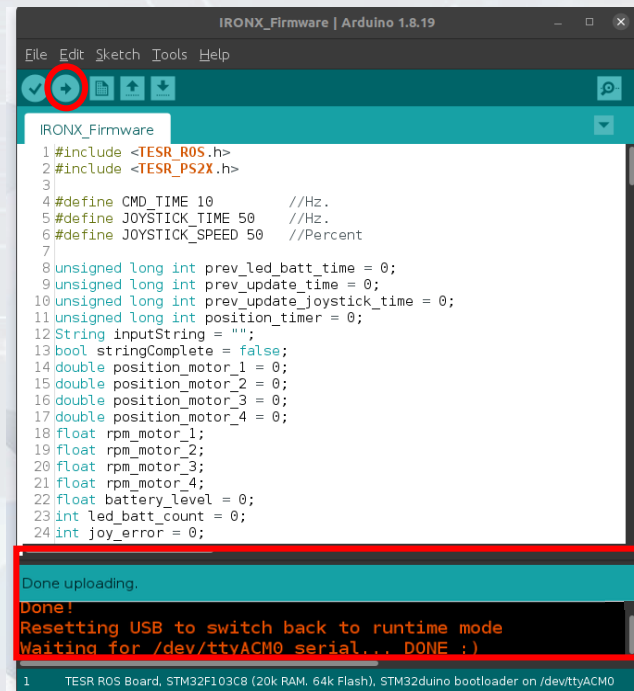


Upload **Arduino** Code to **STM32**

- Open the terminal and give a permission to port **"/dev/ttyACM0"** using:

```
sudo chmod +x /dev/ttyACM0
```

- After that, click  to upload a program to **STM32 Arduino**.



Done uploading.

Done!

Resetting USB to switch back to runtime mode
Waiting for /dev/ttyACM0 serial... DONE :)

Contact Us

Email: tesrshop@gmail.com

Line official Account: @ion1900z

Facebook fanpage: TESR

Tel. 082-983-7768

Scan here



TESR Co., LTD

112/296 หมู่บ้าน เพอร์เฟค มาสเตอร์พีช
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จังหวัดนบุรี 11000