Delete Fingerprint

## 1. Learning target

In this course, we will learn how to use Jetson NANO and fingerprint recognition module to achieve fingerprint delete function.

2. Preparation

The fingerprint recognition module uses UART communication, and the program uses a virtual serial port. Connect the TX and RX of the module to the 10 and 8 pins of the Jetson NANO board. V+/Vi and GND are connected to 3.3V and GND of Jetson NANO board respectively.

Sysfs GPIO	Name	Pin	Pin	Name	Sysfs GPIO
	3.3 VDC Power	1	2	5.0 VDC Power	
	I2C_2_SDA I2C Bus 1	3	4	5.0 VDC Power	
	I2C_2_SCL I2C Bus 1	5	6	GND	
gpio216	AUDIO_MCLK	7	8	UART_2_TX /dev/ttyTHS1	
	GND	9	10	UART_2_RX /dev/ttyTHS1	
gpio50	UART_2_RTS	11	12	I2S_4_SCLK	gpio79
gpio14	SPI_2_SCK	13	14	GND	
gpio194	LCD_TE	15	16	SPI_2_CS1	gpio232
	3.3 VDC Power	17	18	SPI_2_CS0	gpio15
gpio16	SPI_1_MOSI	19	20	GND	
gpio17	SPI_1_MISO	21	22	SPI_2_MISO	gpio13
gpio18	SPI_1_SCK	23	24	SPI_1_CS0	gpio19
	GND	25	26	SPI_1_CS1	gpio20
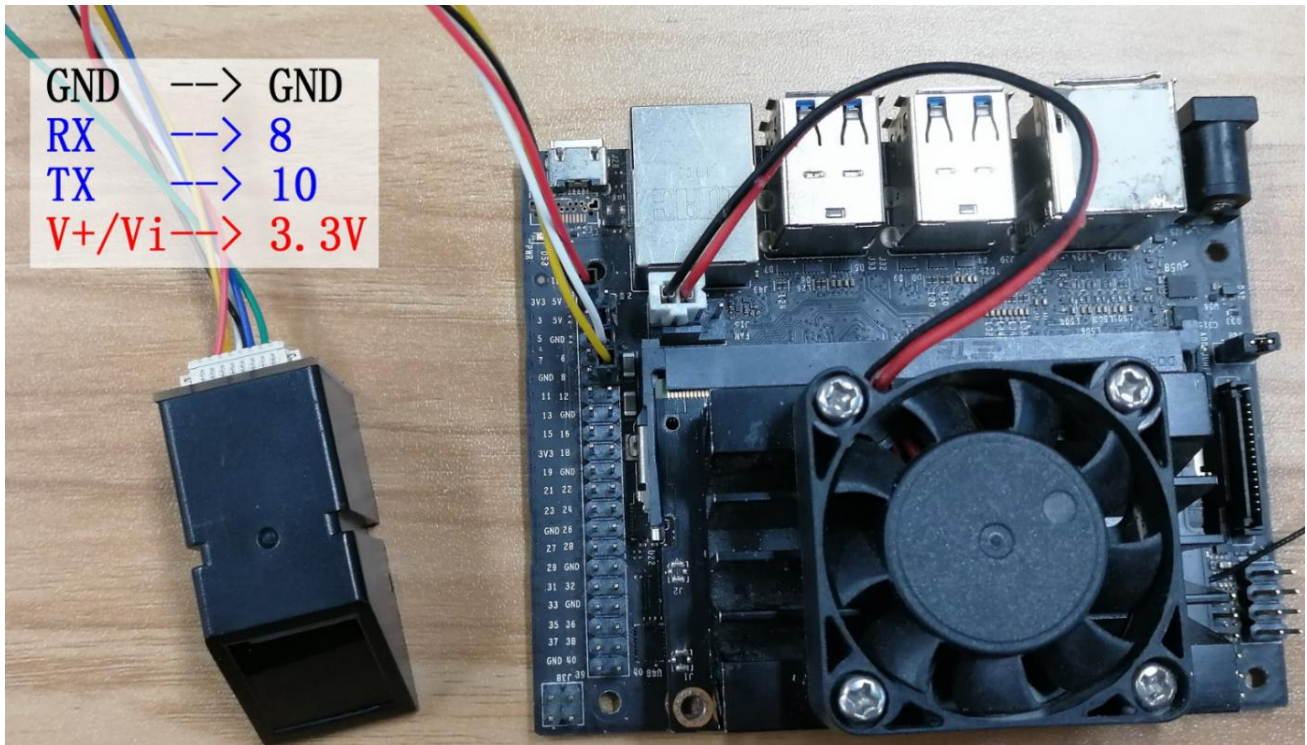
Every time you start Jetson NANOz, you need to enter the following command to enable permissions
sudo chmod 777 /dev/ttyTHS1
3. About code
Please view **finger_delet-nano.py** file.

4. Running code
Input following command to run this code.
python3 finger_delet-nano.py

6. Phenomenon
After the program is run successfully. System will start to initialize the fingerprint recognition module.
If the initialize is successfully, it will display "Initialized successfully". Otherwise, please check the baud rate or wiring of the module.
Then, it will delete fingerprints, when the print out "Delete command is executed", which means that fingerprint-2 is deleted successfully.