Programming Instruction

1. Connection

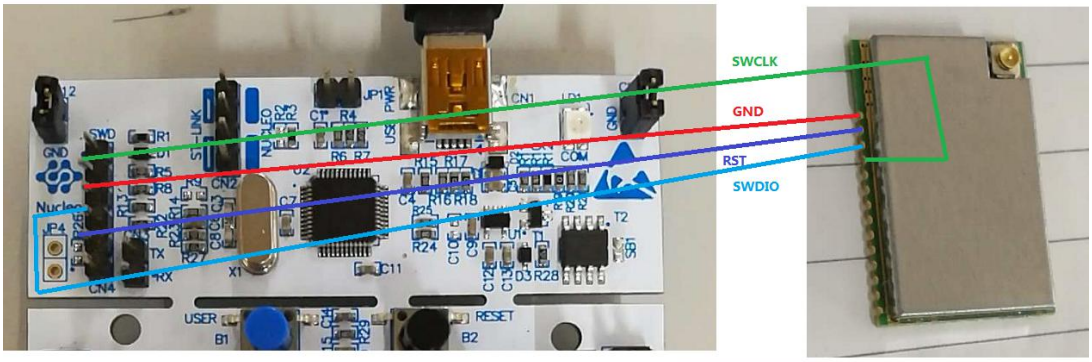
Programming method: Use two lines SWD programming method, which need to connect four wires as below :

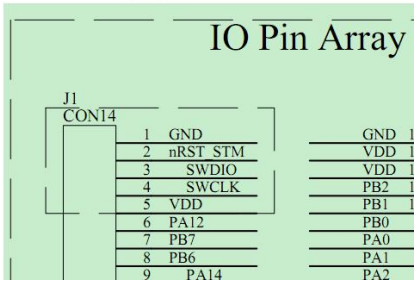
GND

RST(RESET)

SWDIO

SCLK





After connecting the four Pin wires per above diagram, power on the devices and then start programming.

If use stboard own stlink function to program, please make sure to remove the jumper cap marked as below picture , thus preventing the firmware to mistakenly programmed to the MCU on stboard.

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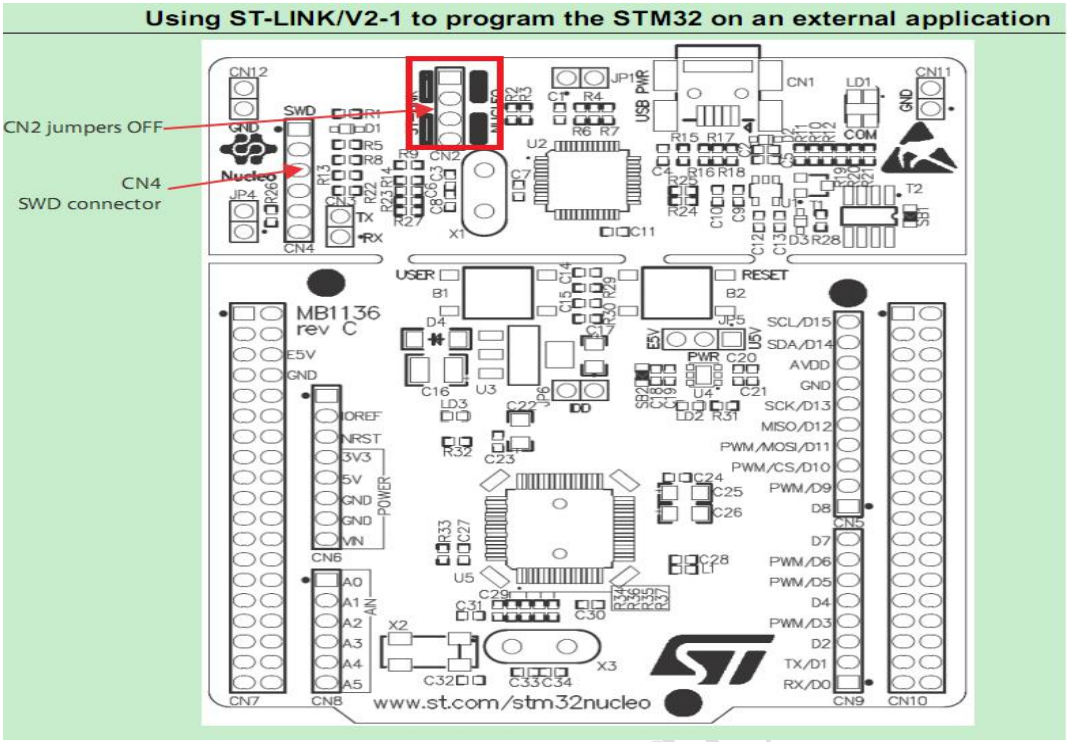
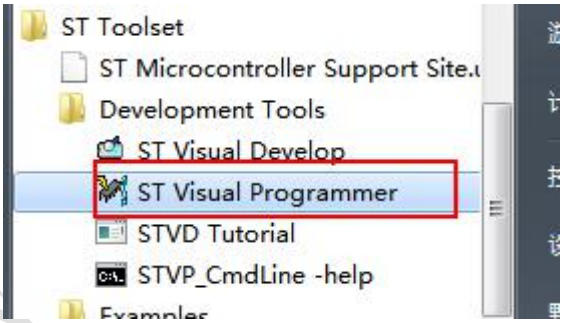
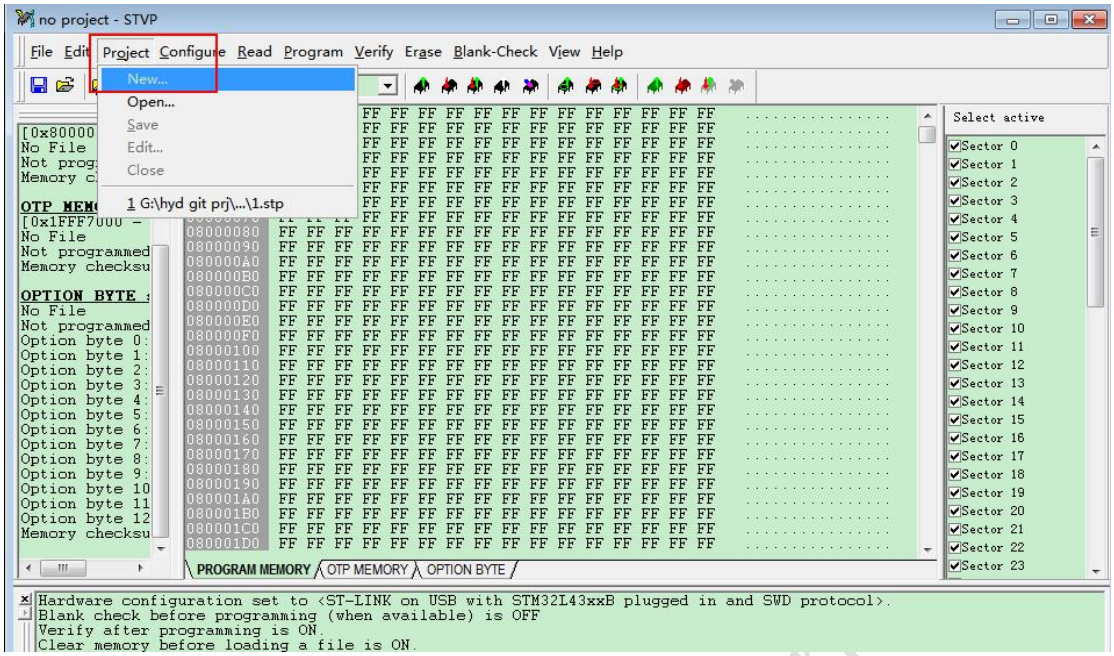


2. Use software to programme

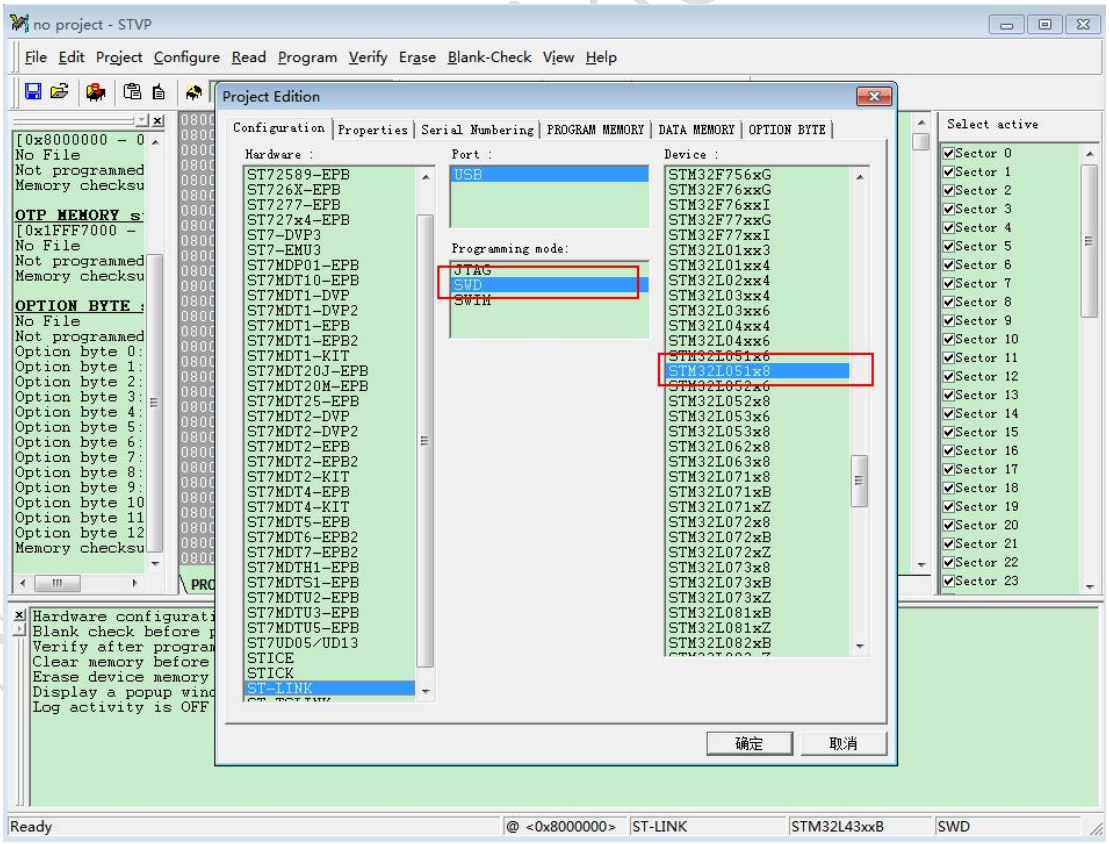
(1) Download the STVP software from the official website links as below , install and open it . . .
https://www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stvp-stm32.html#sw-tools-scroll
）



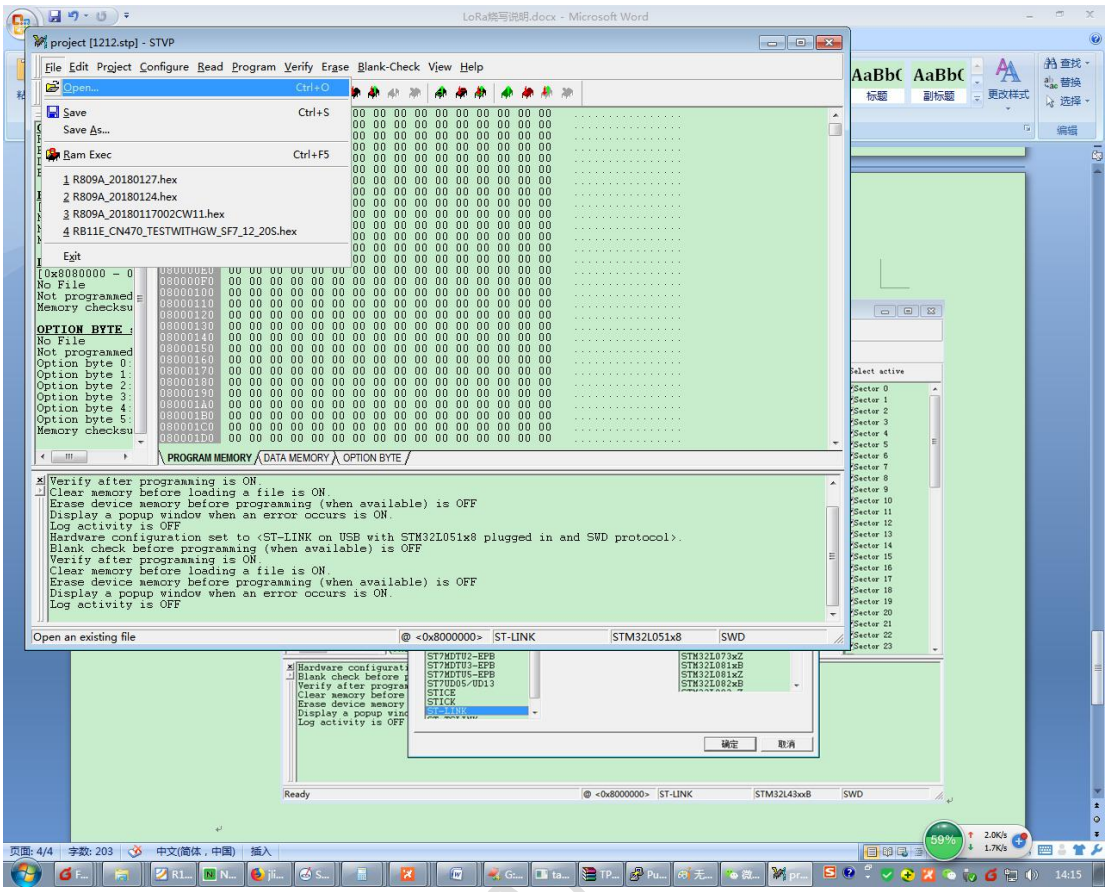
(2)、Select “**New**” to programme

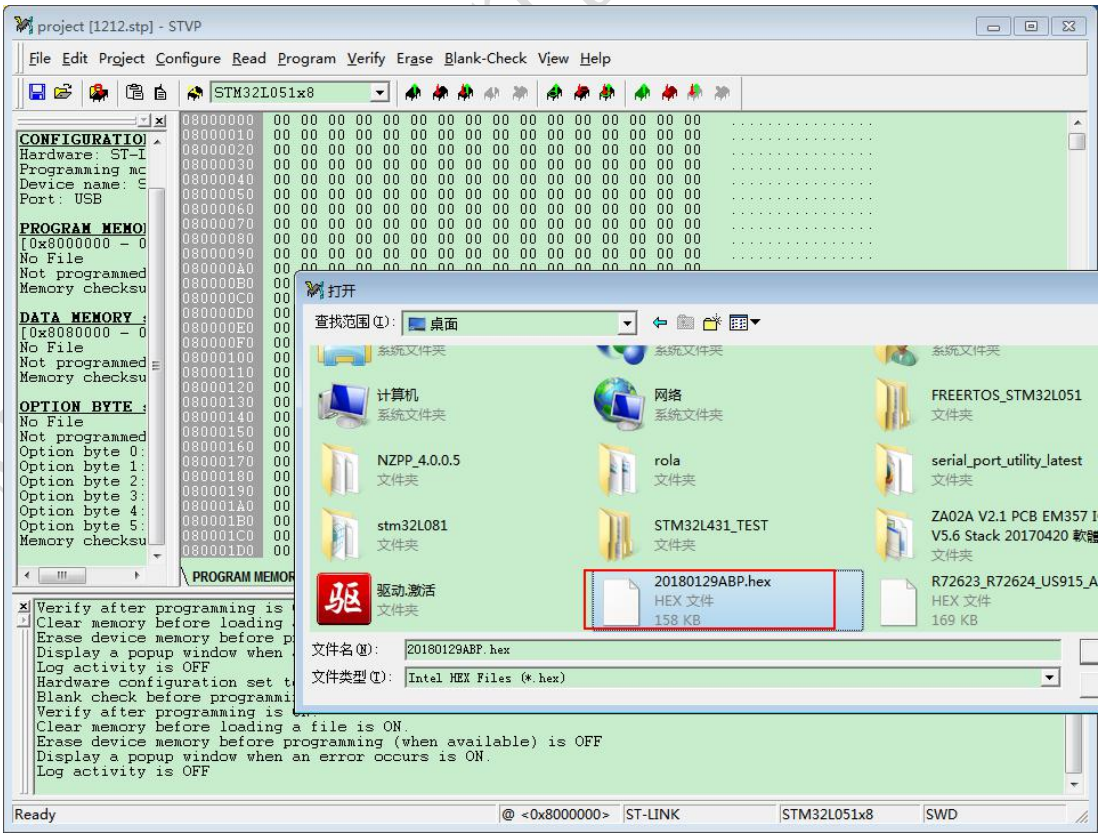


(3). Select programming method "**SWD**"，and choose "**STM32L051X8**"

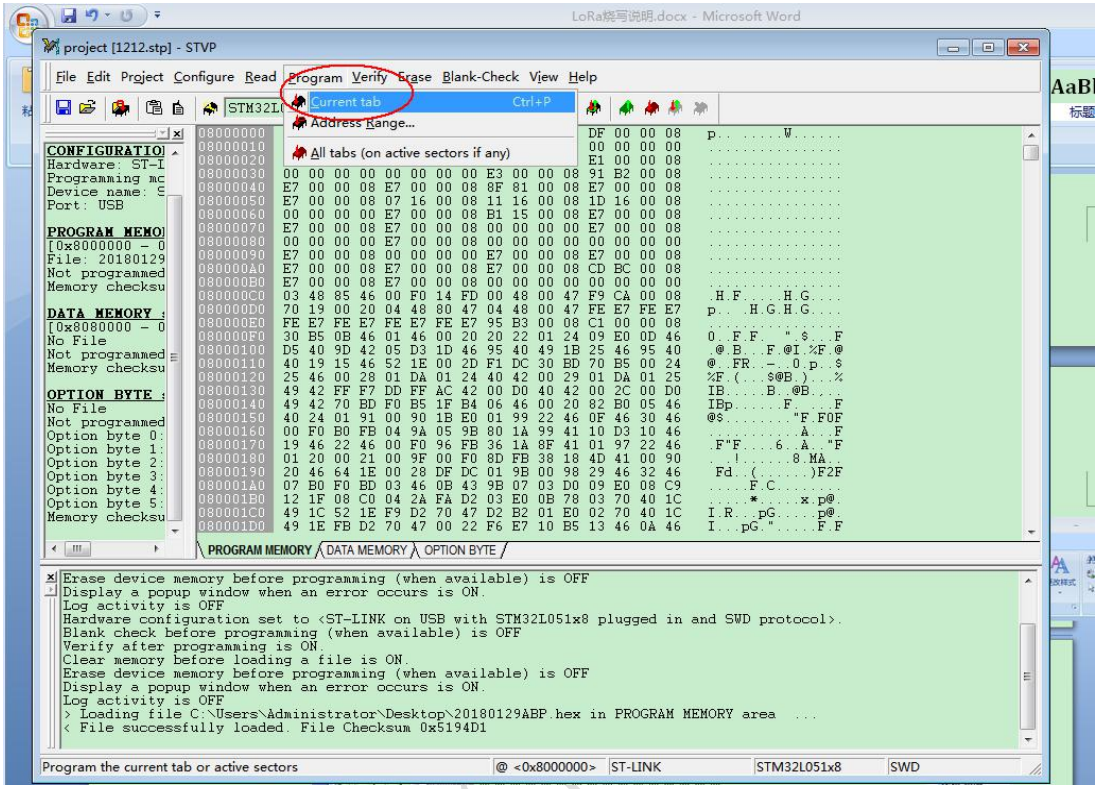


(4). Open **app_programmemory (hex file)**

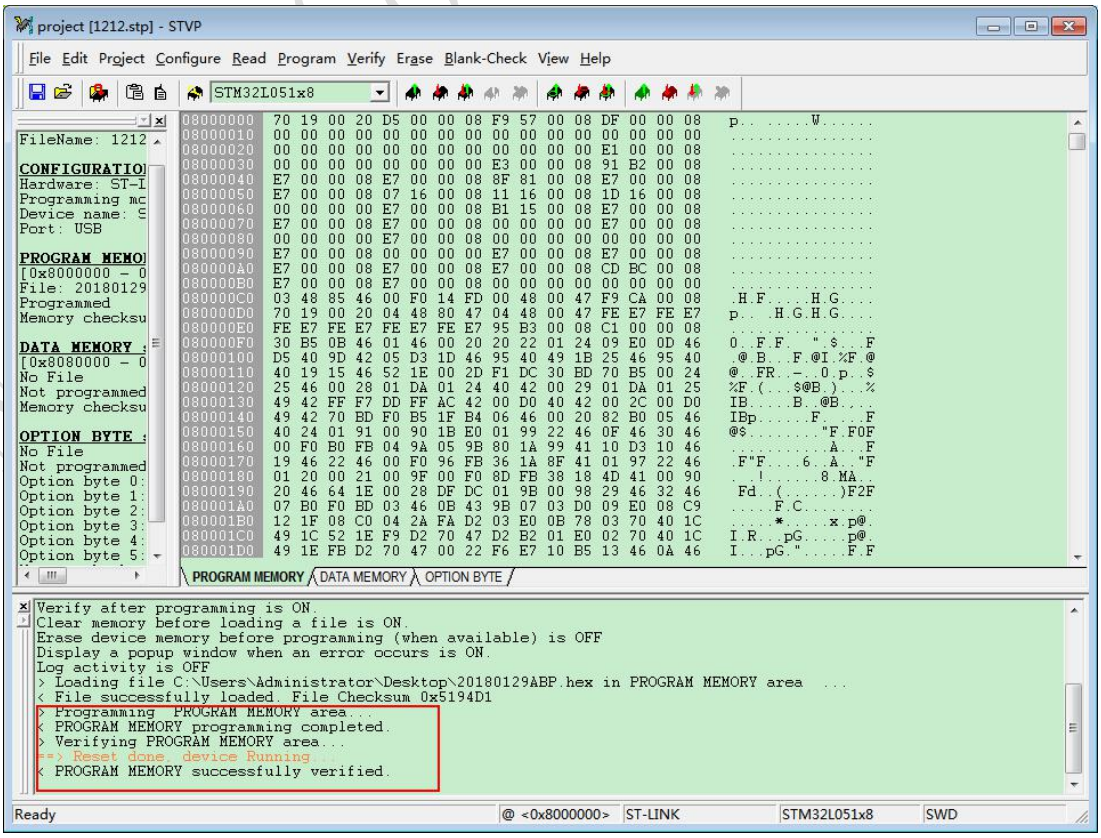

project [1212.stp] - STVP
File Edit Project Configure Read Program Verify Erase Blank-Check View Help
Open... Ctrl+O
Save Ctrl+S
Save As...
Ram Exec Ctrl+F5
1 R809A_20180127.hex
2 R809A_20180124.hex
3 R809A_20180117002CW11.hex
4 RB11E_CN470_TESTWITHGW_SF7_12_20S.hex
Exit
PROGRAM MEMORY
DATA MEMORY
OPTION BYTE
Verify after programming is ON.
Clear memory before loading a file is ON.
Erase device memory before programming (when available) is OFF
Display a popup window when an error occurs is ON.
Log activity is OFF
Hardware configuration set to <ST-LINK on USB with STM32L051x8 plugged in and SWD protocol>.
Open an existing file
ST-LINK
STM32L051x8
SWD


project [1212.stp] - STVP
File Edit Project Configure Read Program Verify Erase Blank-Check View Help
STM32L051x8
打开
查找范围(I): 桌面
计算机
网络
FREERTOS_STM32L051
NZPP_4.0.0.5
rola
serial_port_utility_latest
stm32l081
STM32L431_TEST
驱动.激活
20180129ABP.hex
HEX 文件
158 KB
R72623_R72624_US915_A
169 KB
文件名(N): 20180129ABP.hex
文件类型(T): Intel HEX Files (*.hex)
Verify after programming is ON.
Clear memory before loading a file is ON.
Erase device memory before programming (when available) is OFF
Display a popup window when an error occurs is ON.
Log activity is OFF
Ready
@ <0x8000000>
ST-LINK
STM32L051x8
SWD

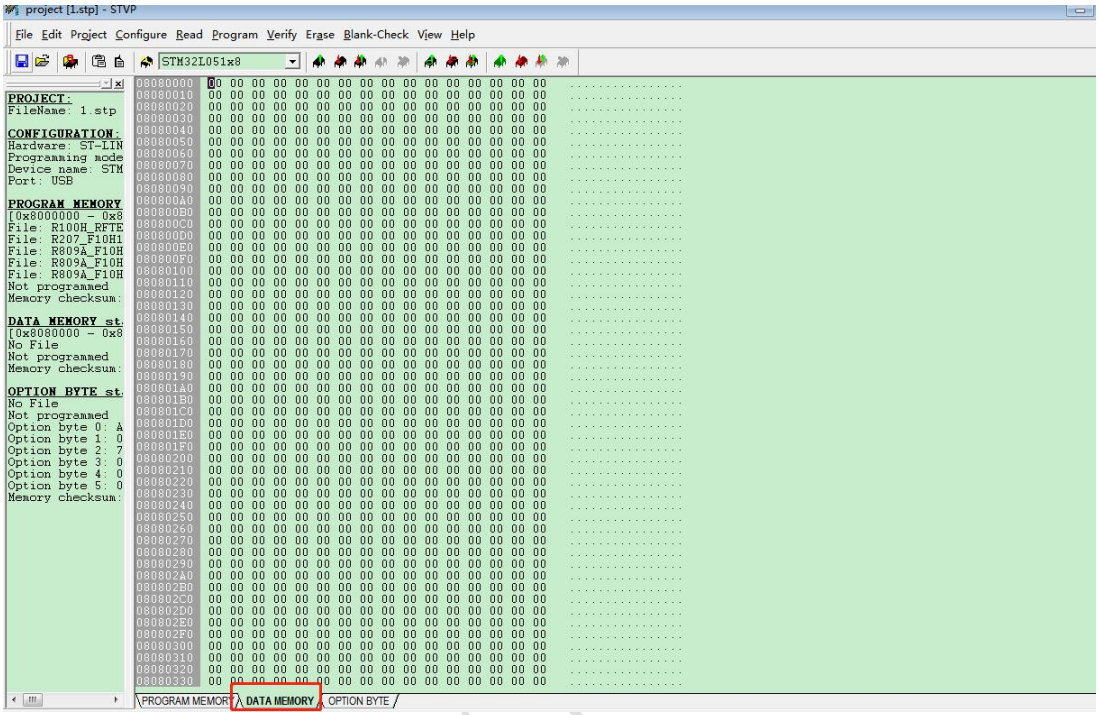
(5). Start programming



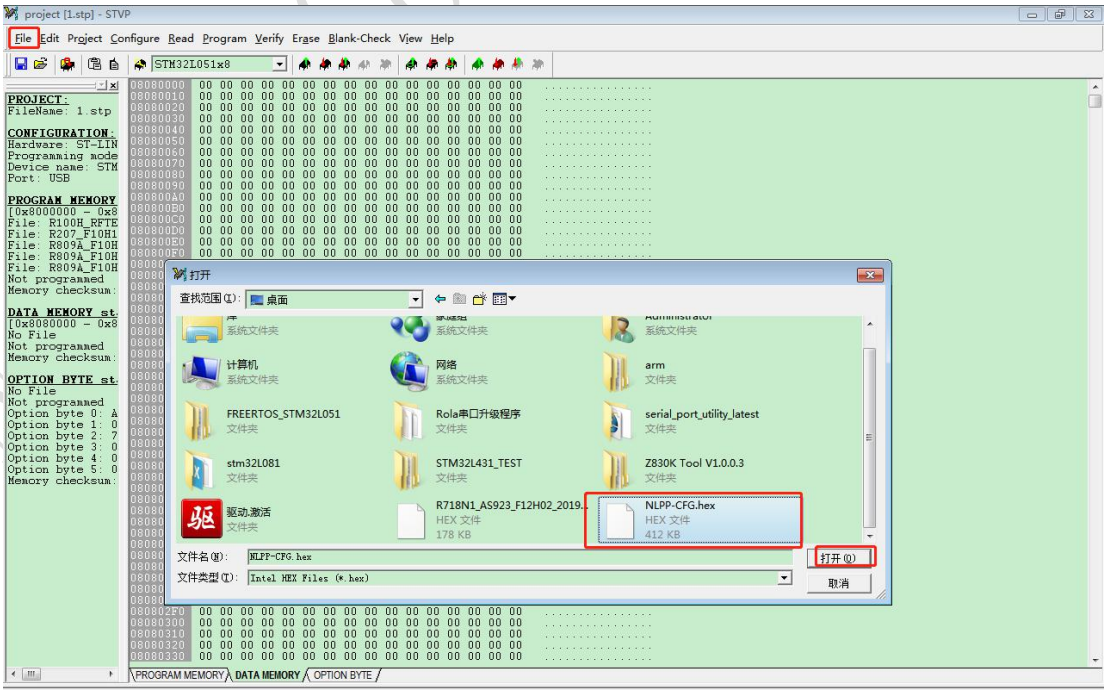
(6). It will prompt as below after programming successfully.



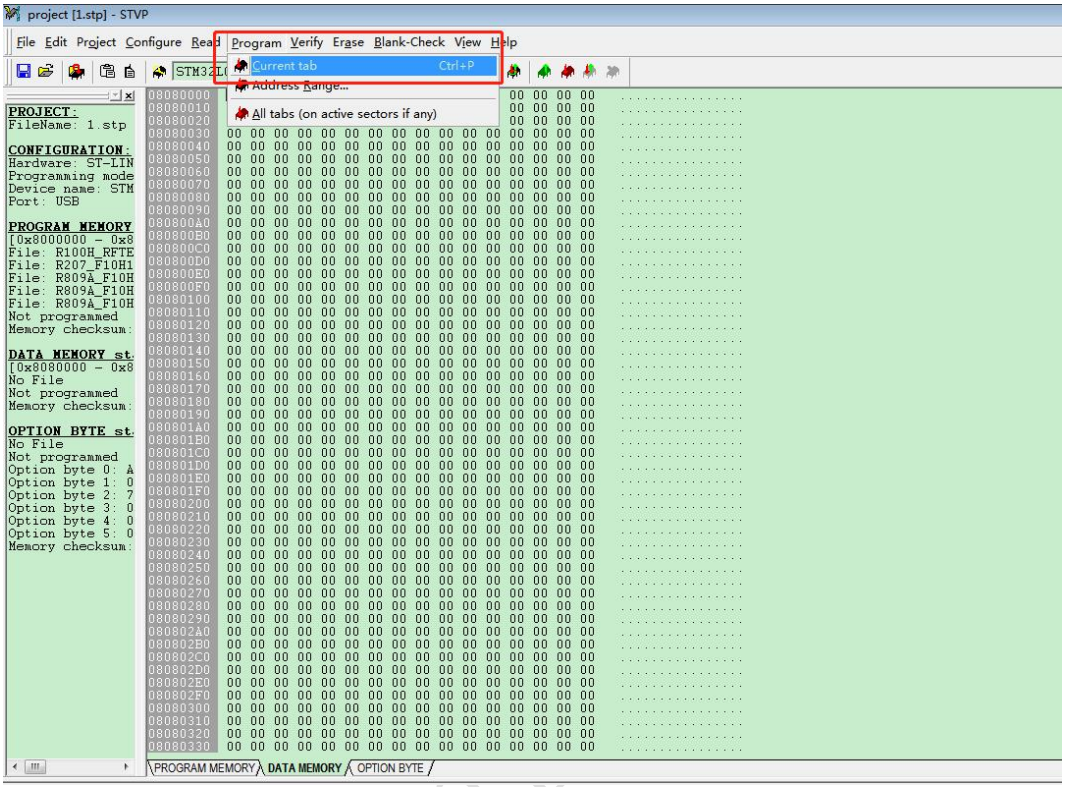
(7). Switch to “DATA MEMORY”



(8). Open the “datamemory-hex” file as below picture.



(9). Select “Current tab” under “ Program” directory and start program “data memory”.
It will prompt after programming successfully.



(10). Restore to factory default after programming , then power on the device , it will run with the new firmware.

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