

## 1. 프로그램 설치

- Raspberry pi imager 최신 버전 설치 (<https://www.raspberrypi.com/software/>)
- PuTTY 설치(<https://iter.kr/putty-install-on-windows/>)
- VNC Viewer 설치(<https://www.realvnc.com/en/connect/download/viewer/windows/>)

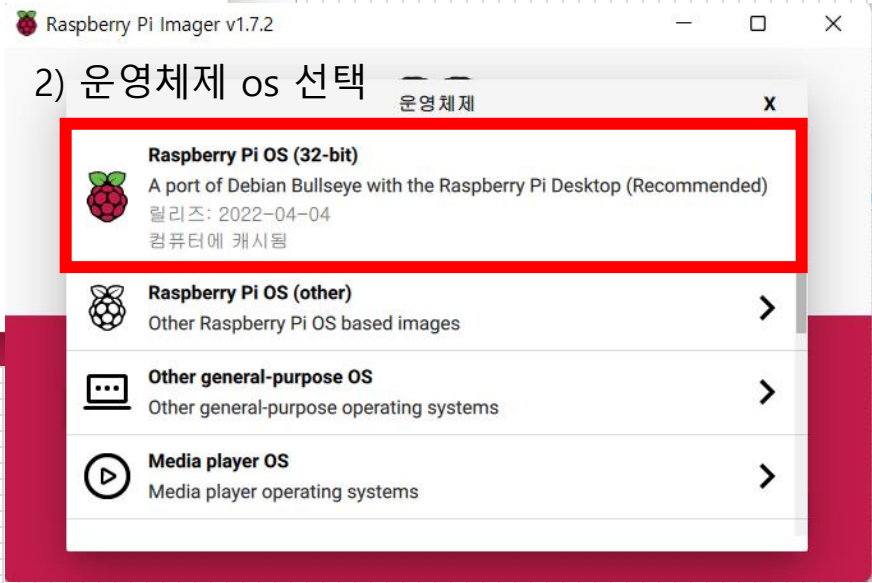
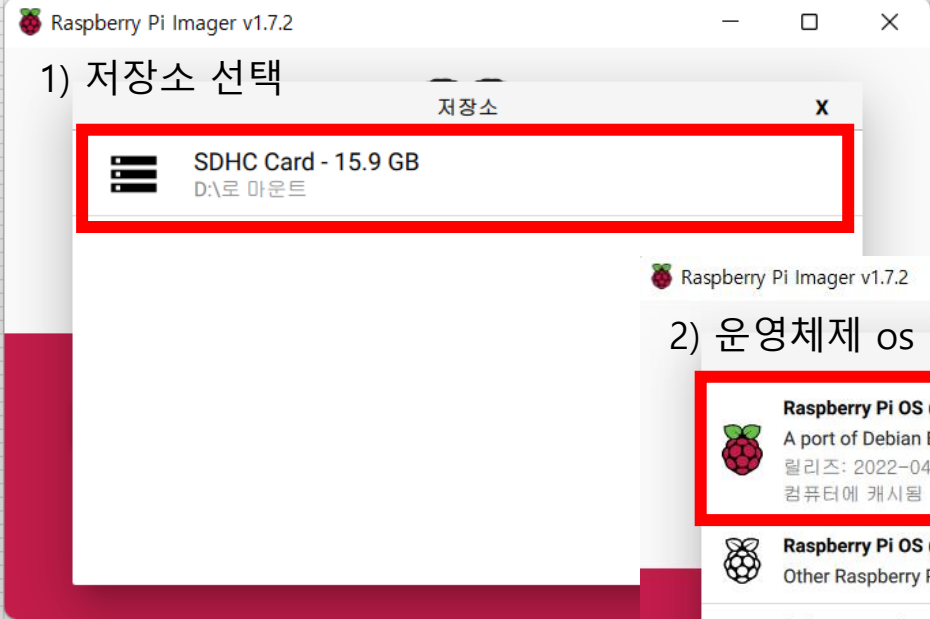
## 2. 라즈베리 파이 SD 카드 노트북 삽입 -> 라즈베리파이 imager 실행

### 참고 영상 및 자료

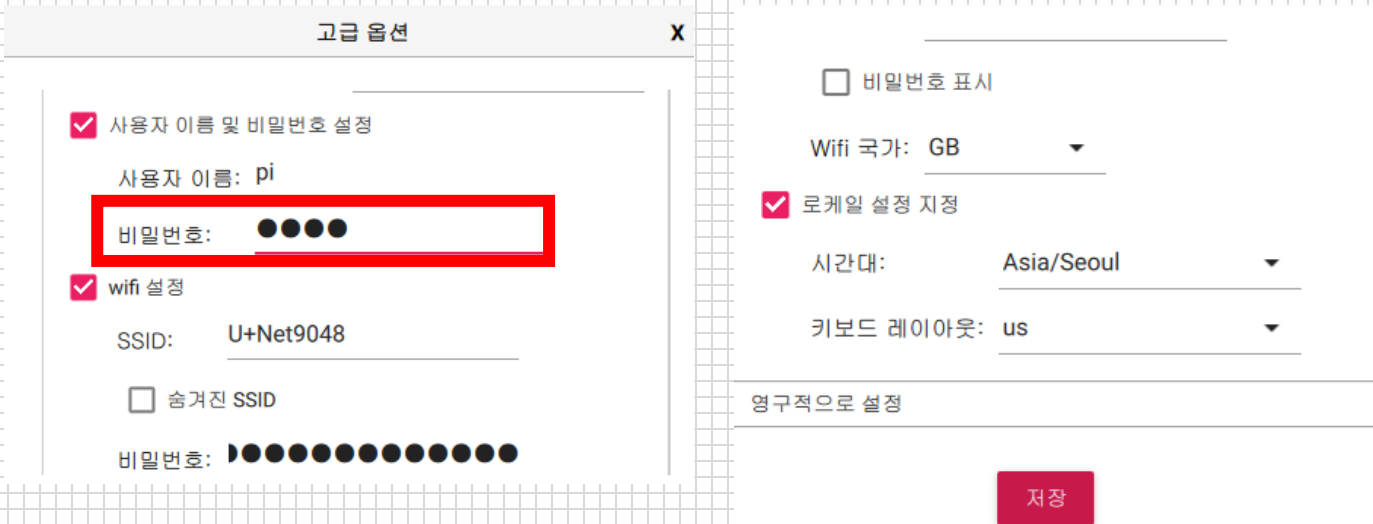
<https://www.youtube.com/watch?v=rEOxUx23A8U>

[https://westwoodforever.blogspot.com/2019/05/ibus.html?fbclid=IwAR1y3vGl2kxENds207Lv\\_qPXPEUnQkdwC-lcTqKrgULAYUasdXsLRqzv5R0](https://westwoodforever.blogspot.com/2019/05/ibus.html?fbclid=IwAR1y3vGl2kxENds207Lv_qPXPEUnQkdwC-lcTqKrgULAYUasdXsLRqzv5R0)

3. 라즈베리파이 아래와 같이 설정



3-2) 사용자 비밀번호 본인이 입력



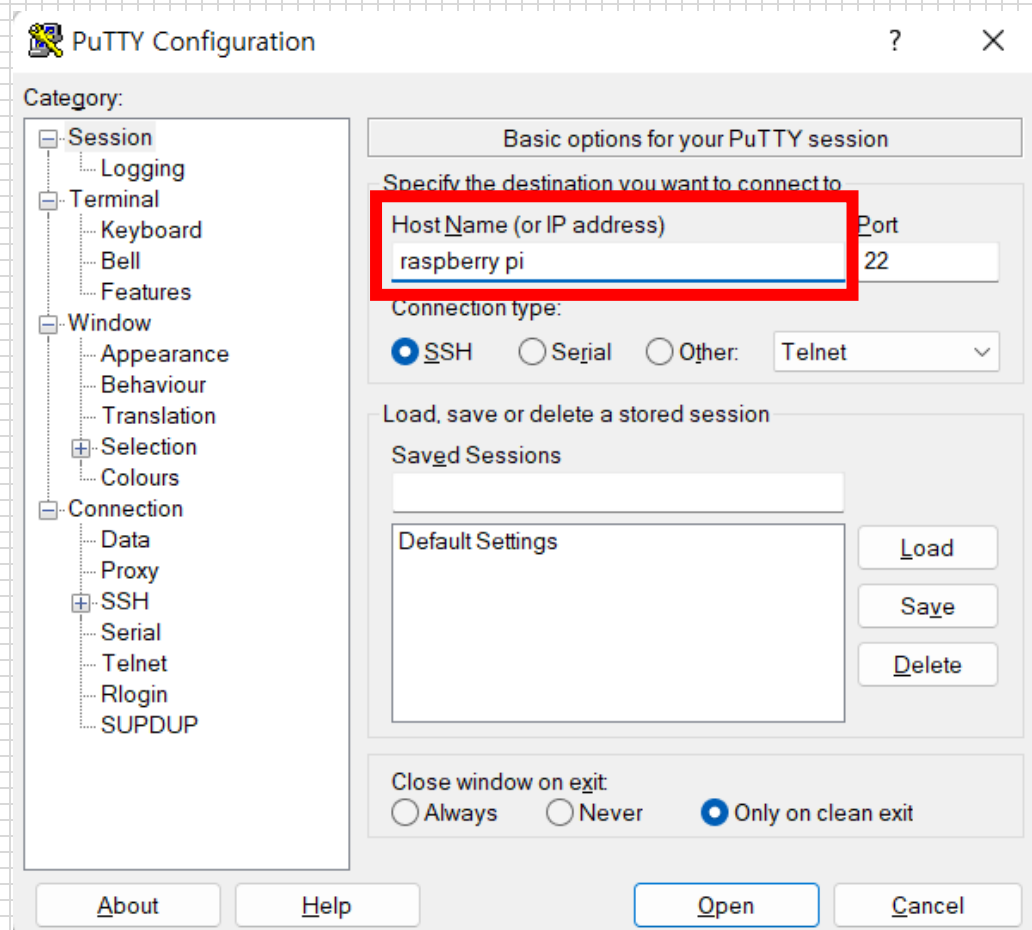
3) 환경설정 클릭

#### 4. 쓰기 활성화 되면 클릭

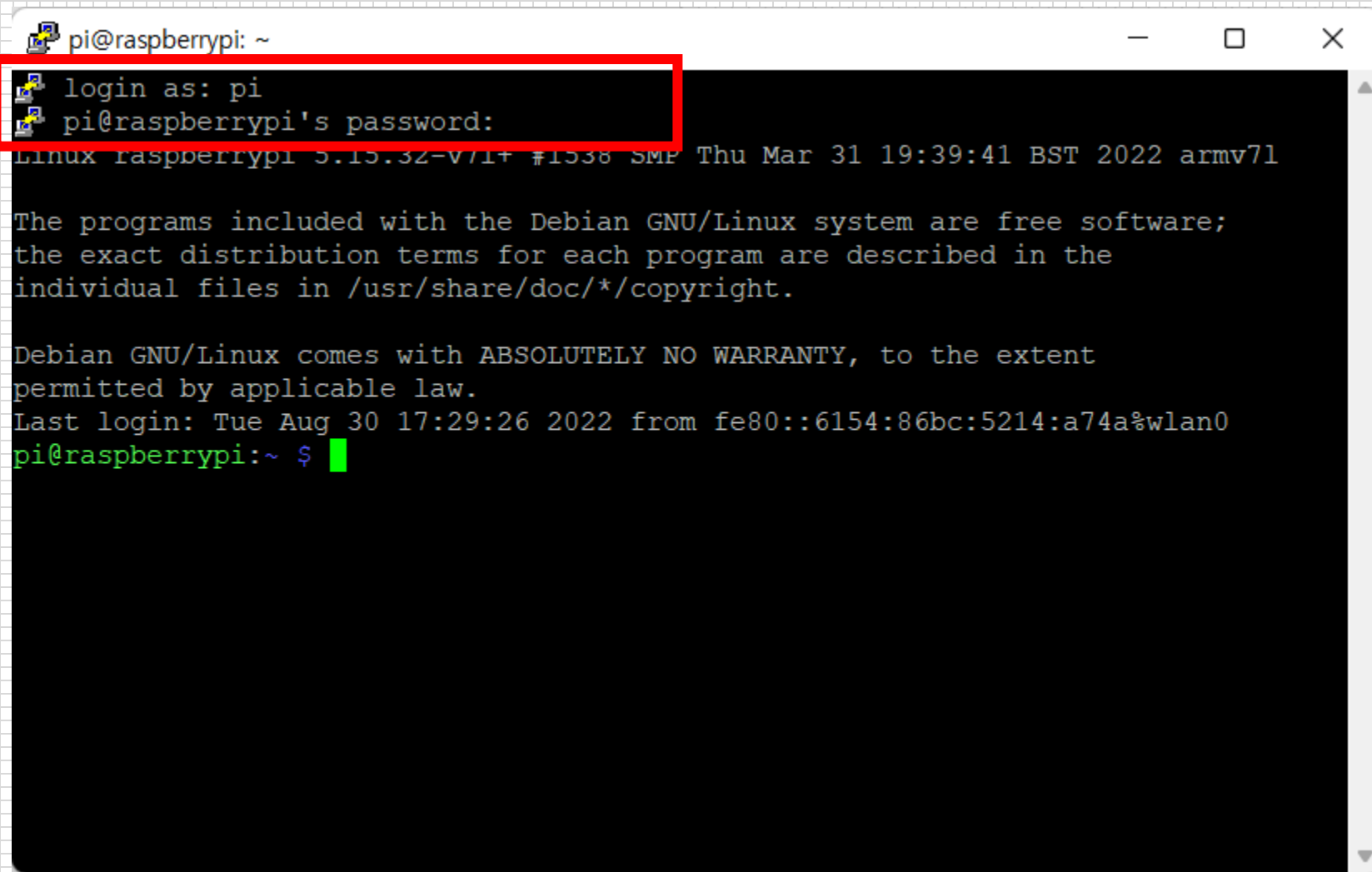


#### 5. 완료 후 SD카드 라즈베리파이에 삽입 후 전원 연결

#### 6. PuTTY 실행 -> "raspberry pi" 입력



7. Login as 에 pi입력 후 비밀번호 입력(2페이지에서 정의한 사용자 이름 / 비밀번호)

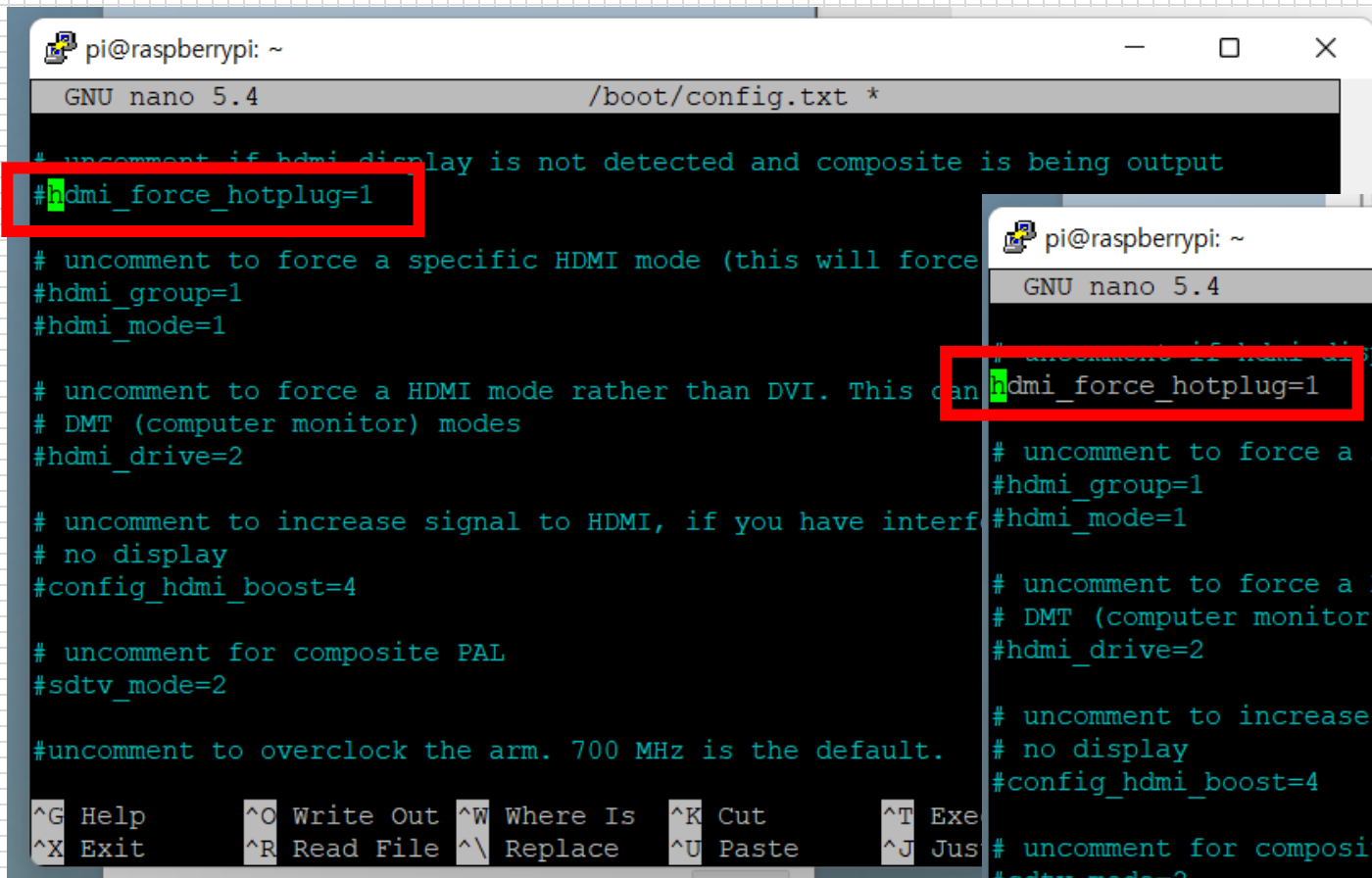
A terminal window titled 'pi@raspberrypi: ~' with standard window controls. The terminal output shows a login sequence where 'pi' is entered as the username and the password is masked with asterisks. Below the login, the system version 'Linux raspberrypi 5.15.32-v7l+ #1538 SMP Thu Mar 31 19:39:41 BST 2022 armv7l' is displayed, followed by the Debian GNU/Linux license text. The prompt returns to 'pi@raspberrypi:~ \$' with a green cursor.

```
pi@raspberrypi: ~  
login as: pi  
pi@raspberrypi's password: *****  
Linux raspberrypi 5.15.32-v7l+ #1538 SMP Thu Mar 31 19:39:41 BST 2022 armv7l  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Tue Aug 30 17:29:26 2022 from fe80::6154:86bc:5214:a74a%wlan0  
pi@raspberrypi:~ $
```

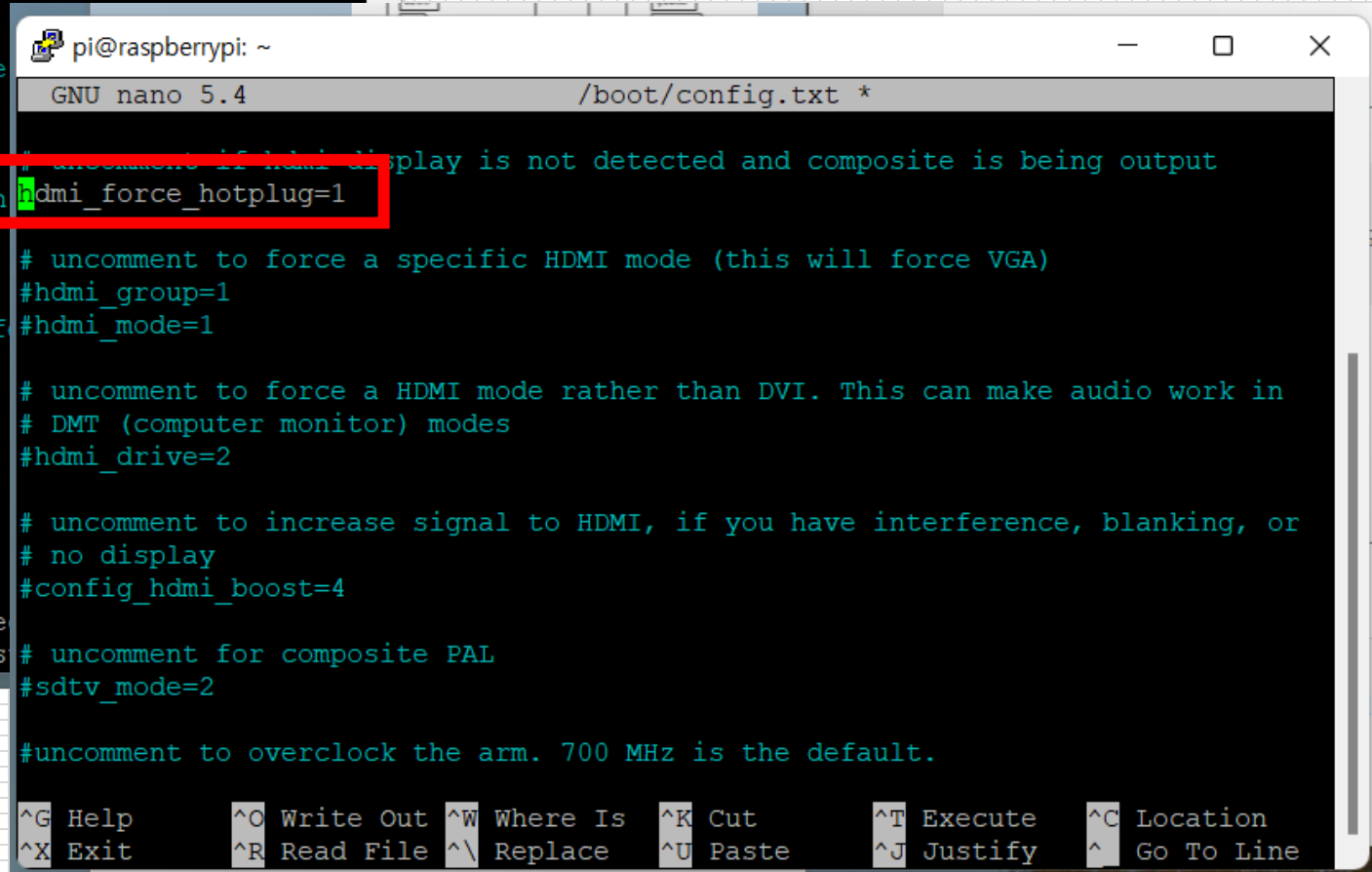
## 8. 아래 명령어 입력

sudo nano /boot/config.txt

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Tue Aug 30 16:36:19 2022
pi@raspberrypi:~ $ sudo nano /boot/config.txt
```



```
pi@raspberrypi: ~
GNU nano 5.4 /boot/config.txt *
# uncomment if hdmi display is not detected and composite is being output
#hdmi_force_hotplug=1
# uncomment to force a specific HDMI mode (this will force VGA)
#hdmi_group=1
#hdmi_mode=1
# uncomment to force a HDMI mode rather than DVI. This can make audio work in
# DMT (computer monitor) modes
#hdmi_drive=2
# uncomment to increase signal to HDMI, if you have interference, blanking, or
# no display
#config_hdmi_boost=4
# uncomment for composite PAL
#sdtv_mode=2
#uncomment to overclock the arm. 700 MHz is the default.
^G Help  ^O Write Out  ^W Where Is  ^K Cut       ^T Execute
^X Exit  ^R Read File  ^\ Replace   ^U Paste     ^J Justify
```



```
pi@raspberrypi: ~
GNU nano 5.4 /boot/config.txt *
# uncomment if hdmi display is not detected and composite is being output
#hdmi_force_hotplug=1
# uncomment to force a specific HDMI mode (this will force VGA)
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# no display
#config_hdmi_boost=4
# uncomment for composite PAL
#sdtv_mode=2
#uncomment to overclock the arm. 700 MHz is the default.
^G Help  ^O Write Out  ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit  ^R Read File  ^\ Replace   ^U Paste     ^J Justify  ^_ Go To Line
```

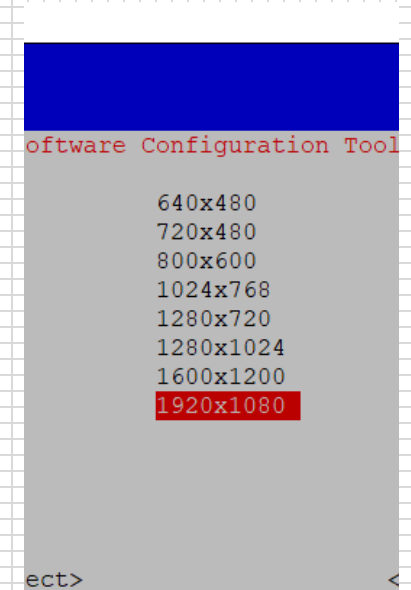
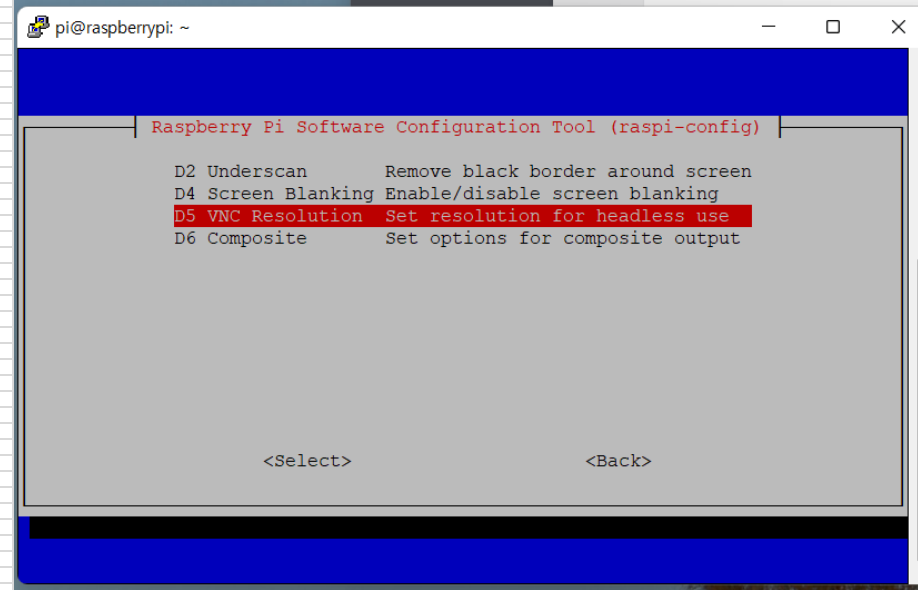
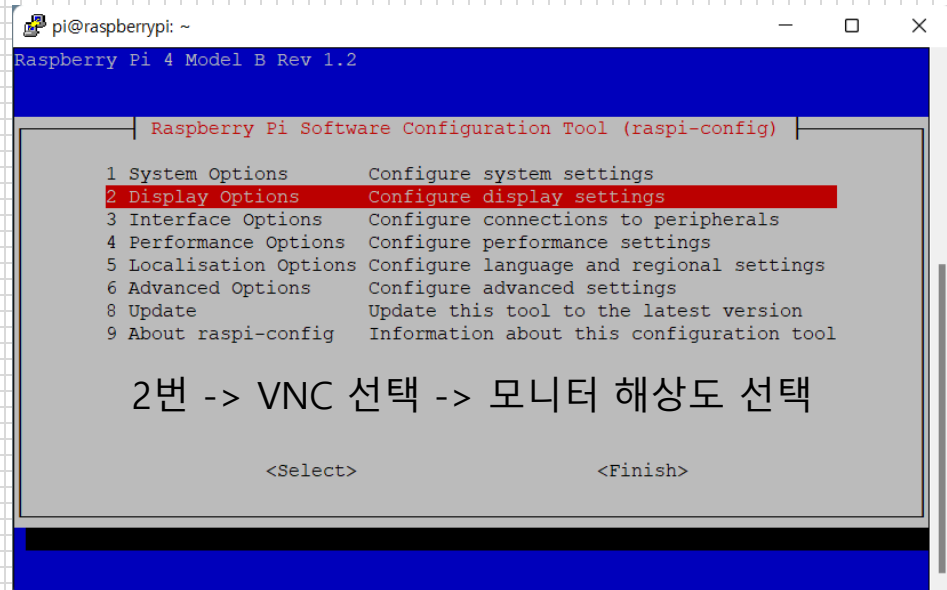
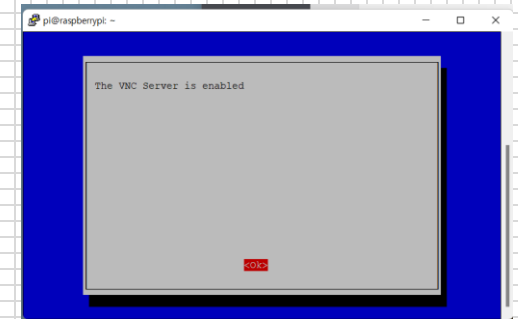
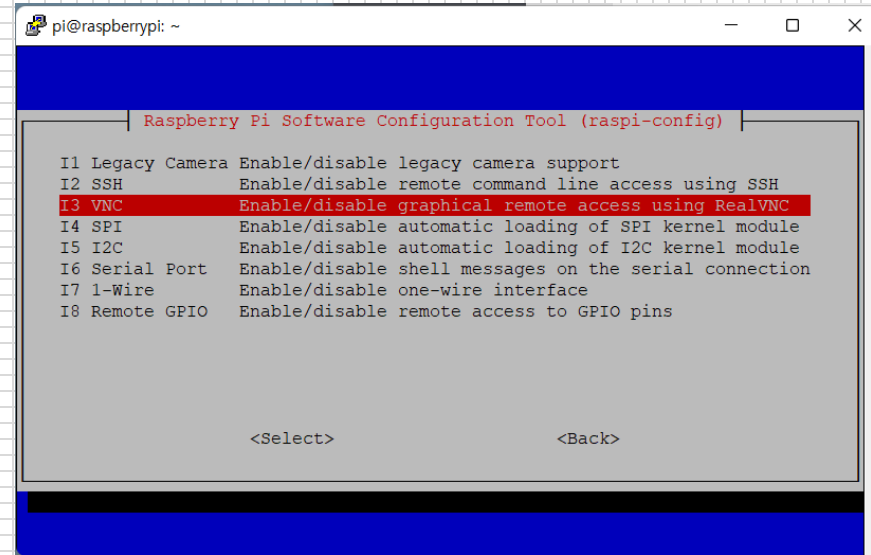
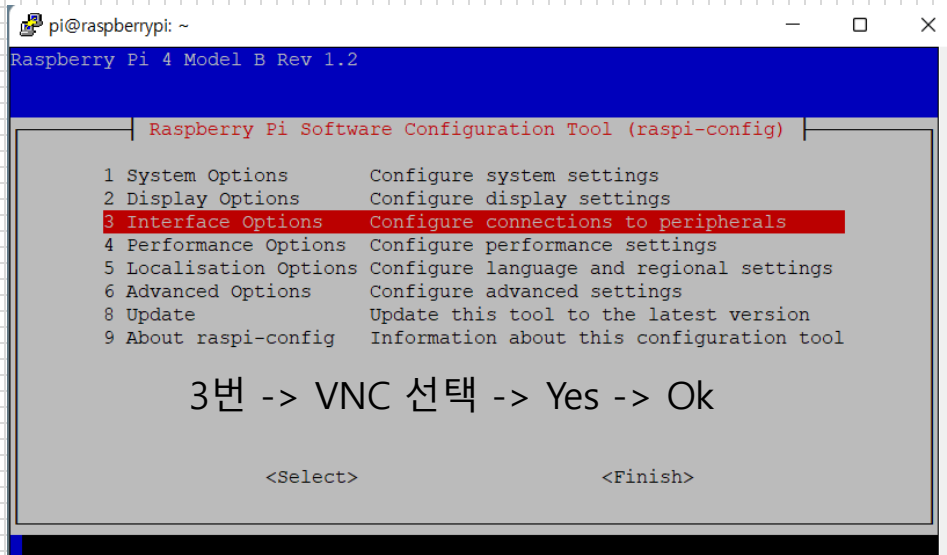
#hdmi\_force\_hotplug=1에 # 삭제 후

ctrl+x -> shift+y 엔터로 저장 종료

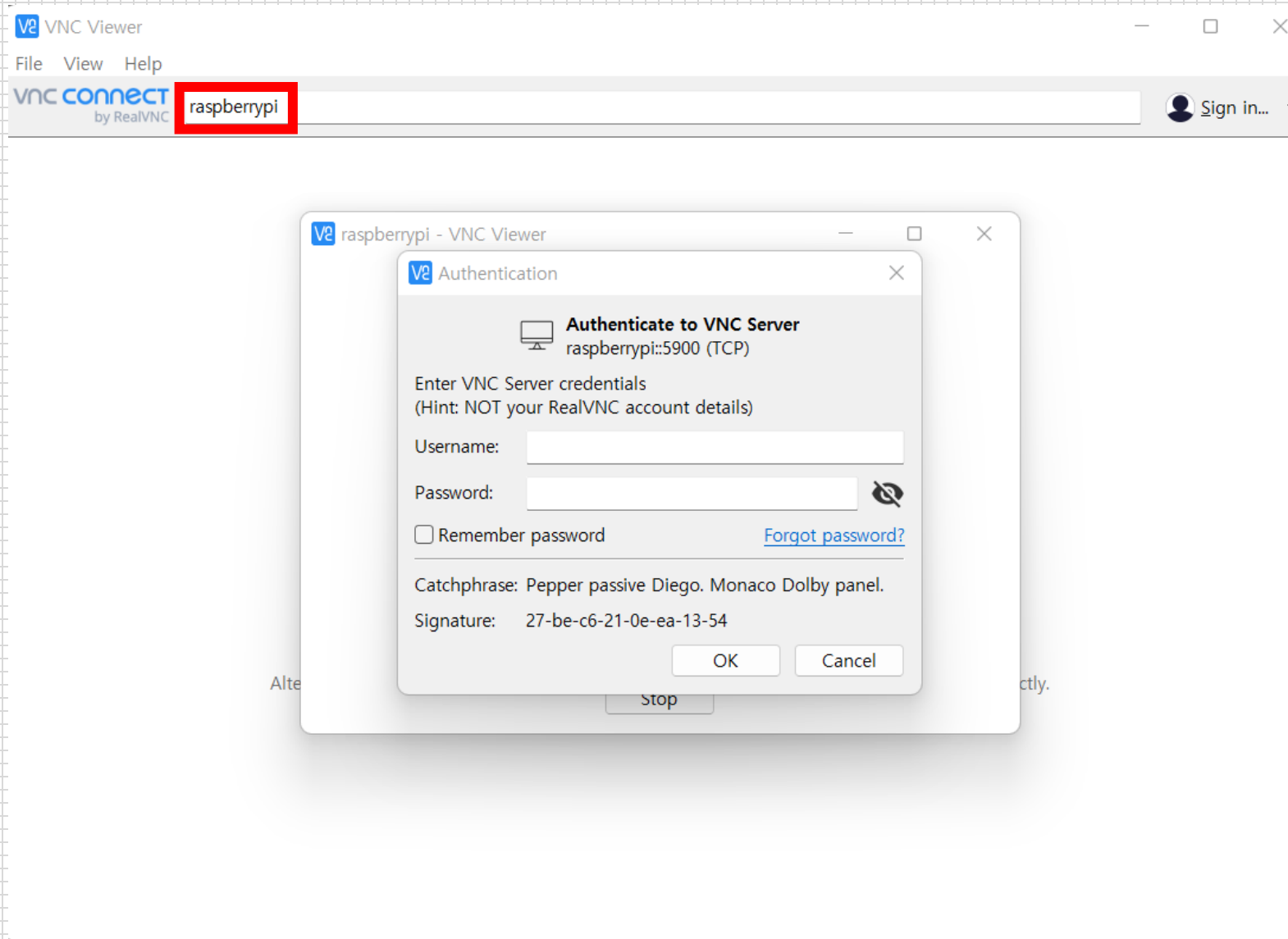
## 9. 아래 명령어 입력

```
pi@raspberrypi:~ $ sudo raspi-config
```

sudo raspi-config



## 10. 완료 후 VNC 연결

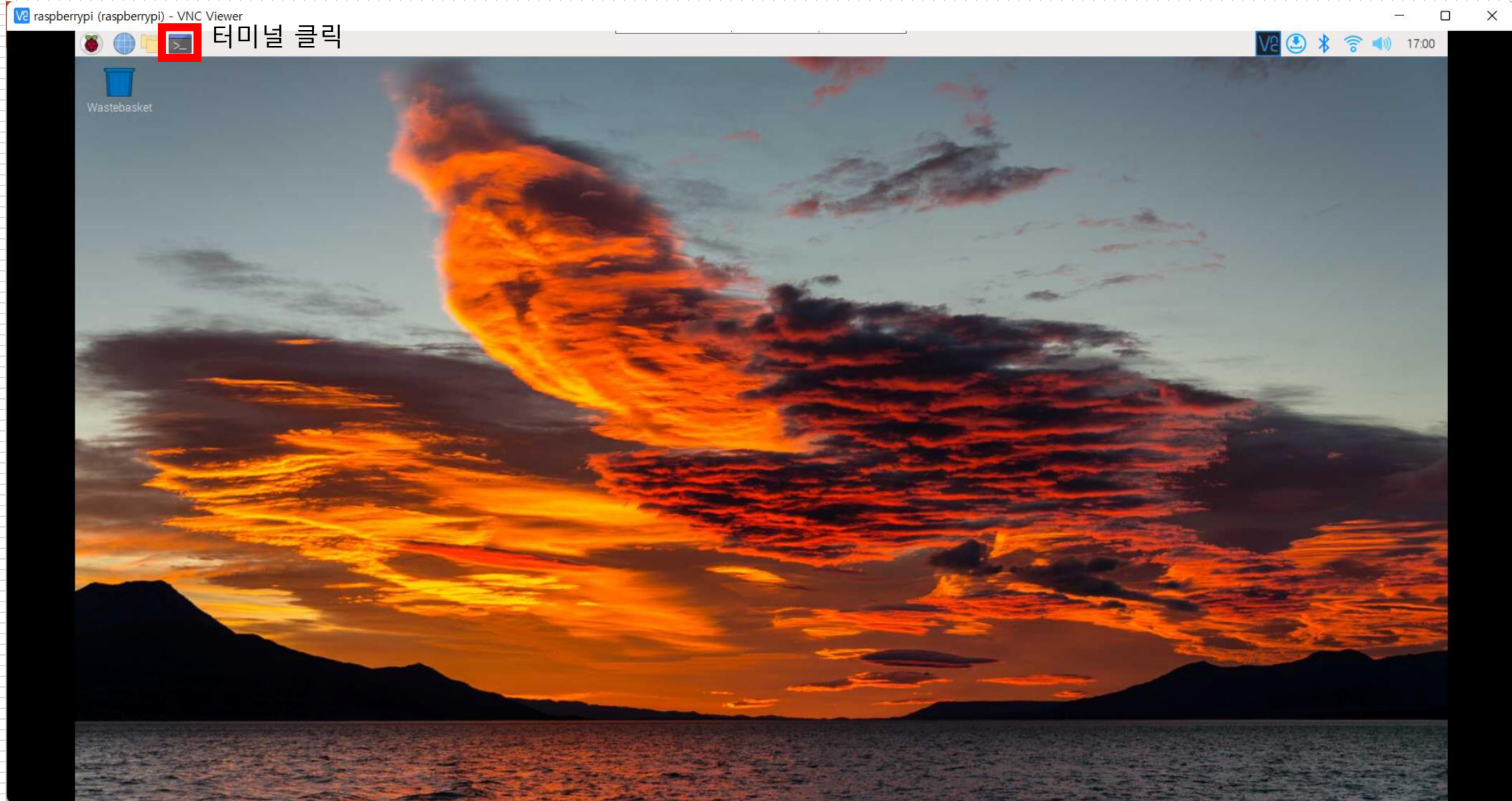


Raspberrypi 입력

-> user name : pi / password 입력

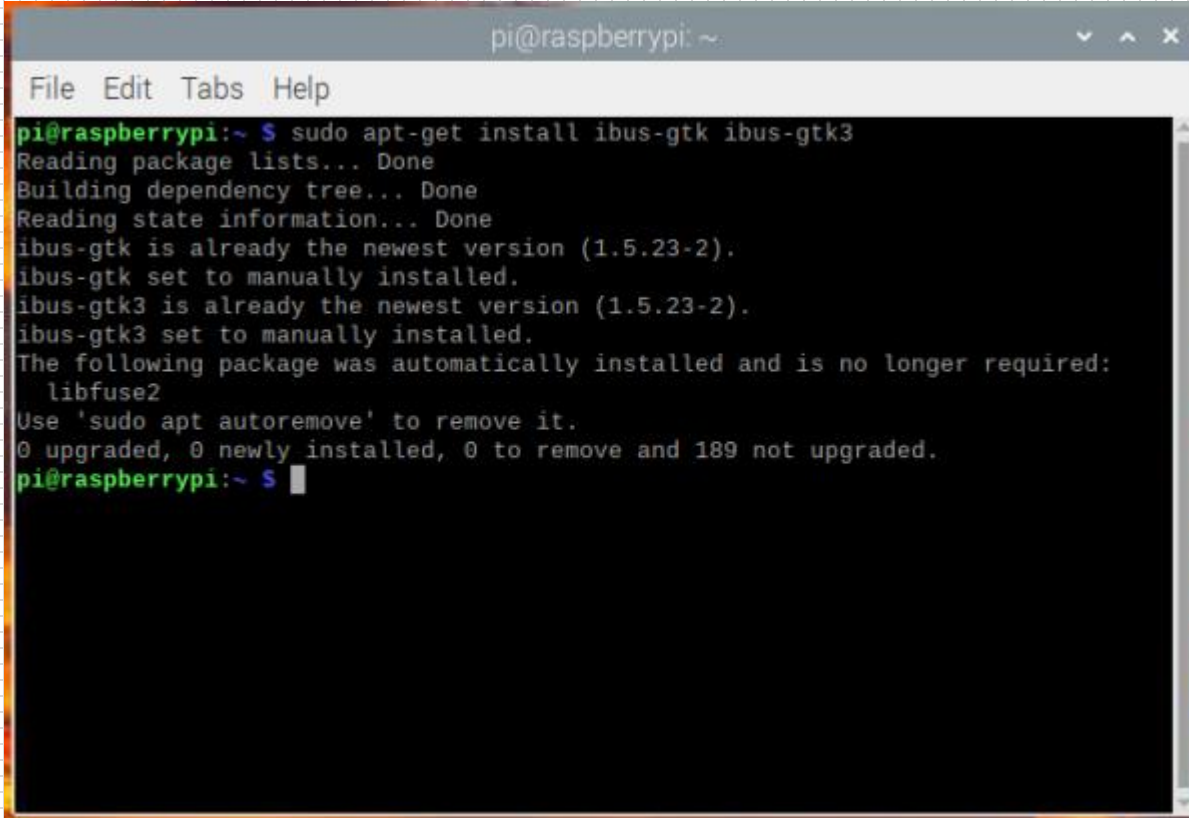


## 11. 라즈베리파이 접속 완료 -> 한글패치





## 12. 명령어 모두 하나씩 실행



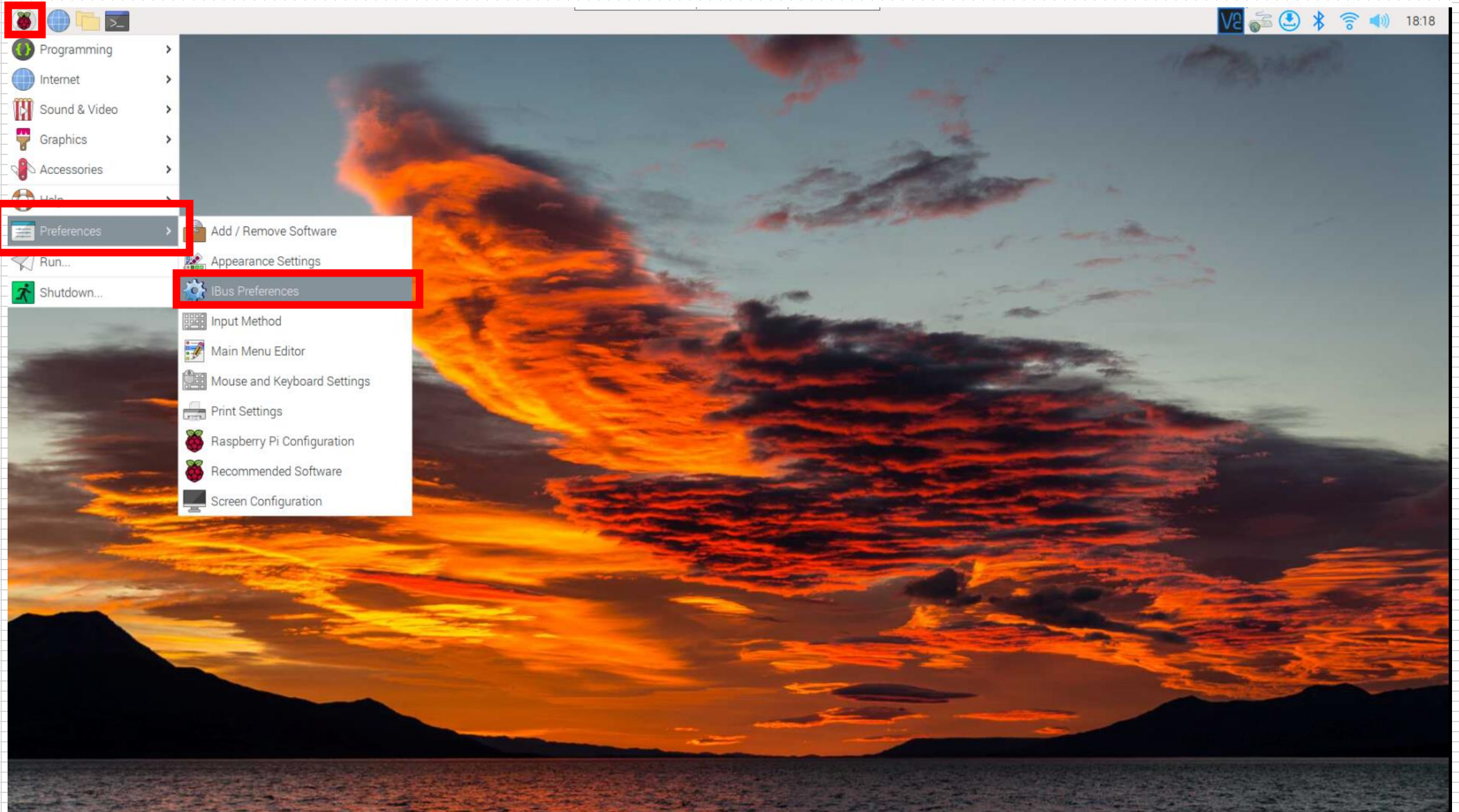
```
pi@raspberrypi: ~  
File Edit Tabs Help  
pi@raspberrypi:~$ sudo apt-get install ibus-gtk ibus-gtk3  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
ibus-gtk is already the newest version (1.5.23-2).  
ibus-gtk set to manually installed.  
ibus-gtk3 is already the newest version (1.5.23-2).  
ibus-gtk3 set to manually installed.  
The following package was automatically installed and is no longer required:  
  libfuse2  
Use 'sudo apt autoremove' to remove it.  
0 upgraded, 0 newly installed, 0 to remove and 189 not upgraded.  
pi@raspberrypi:~$
```

`sudo apt-get install ibus ibus-hangul`

`sudo apt-get install ibus-gtk ibus-gtk3`

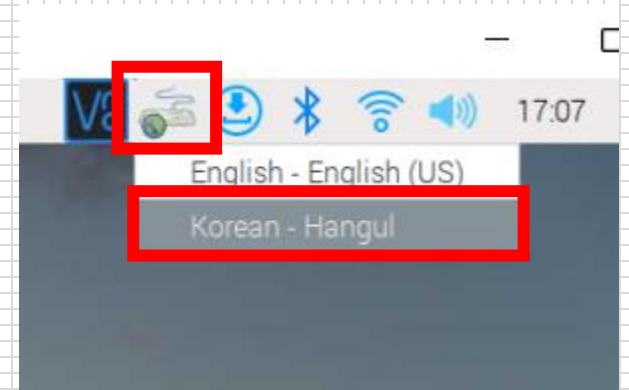
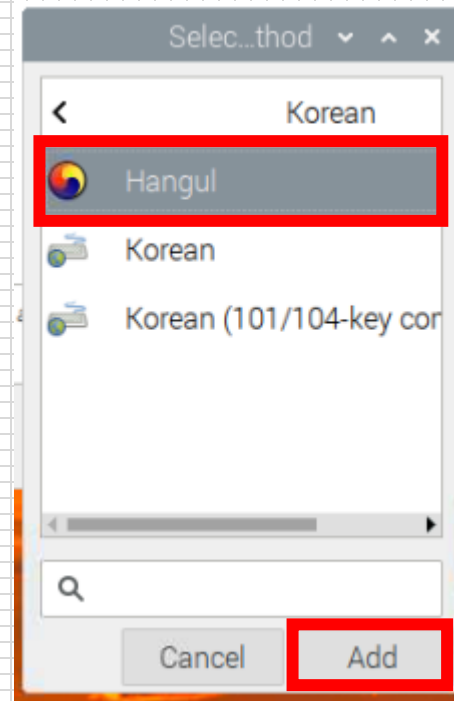
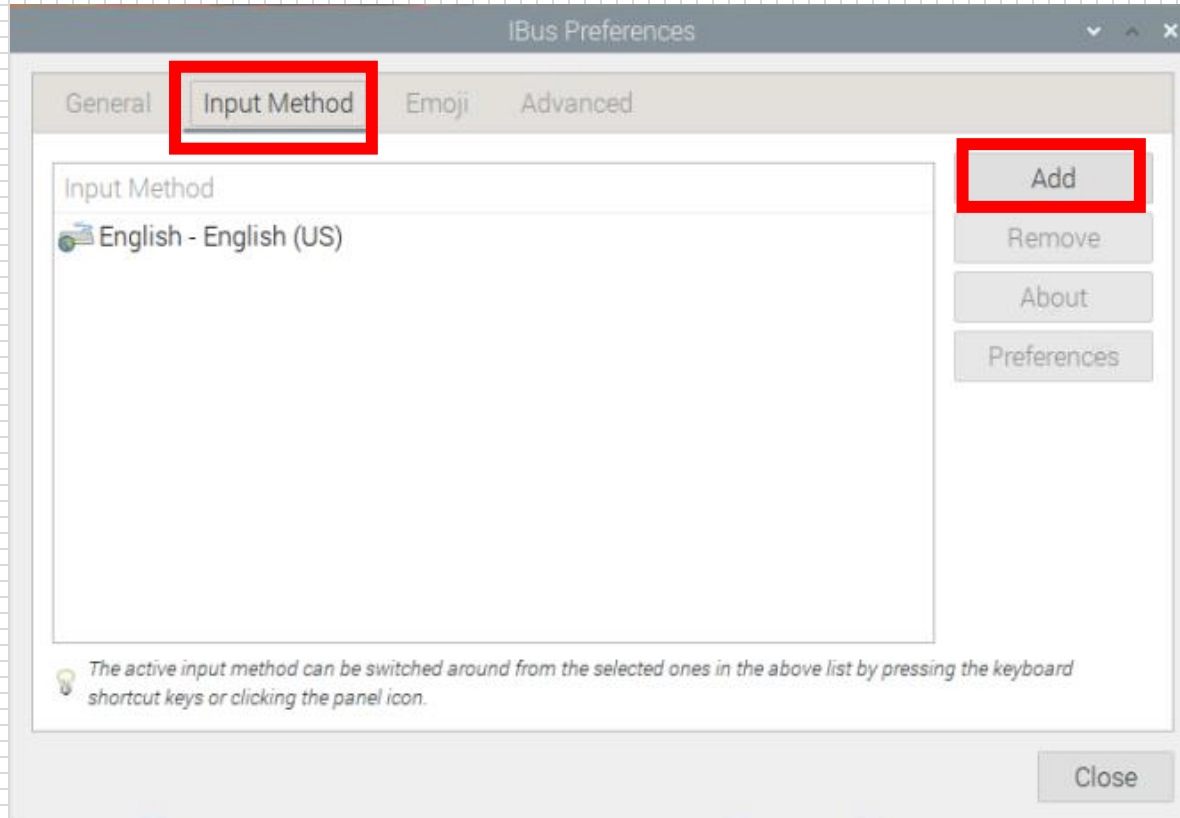
`sudo apt install fonts-unfonts-core`

### 13. 아래와 같이 클릭

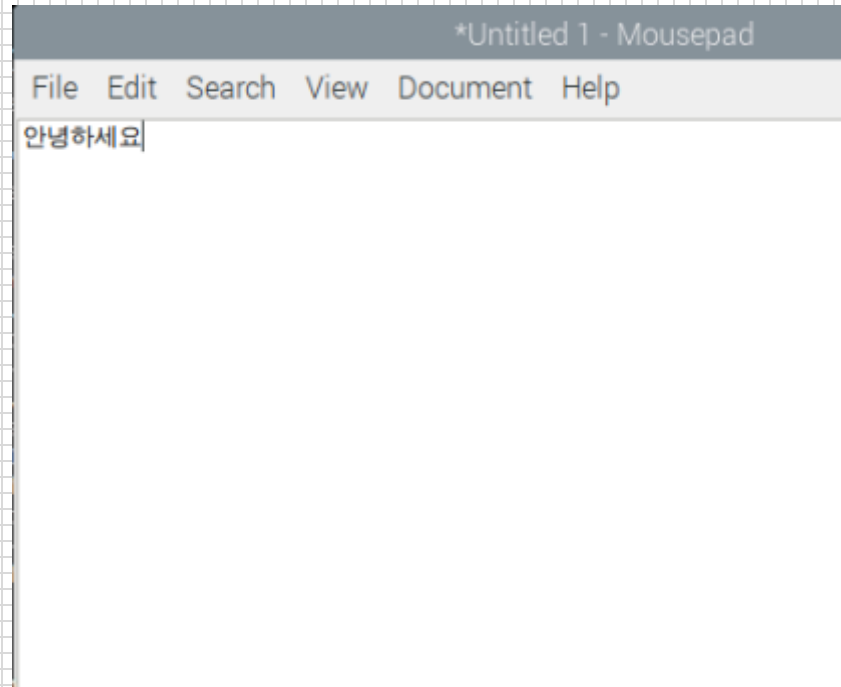
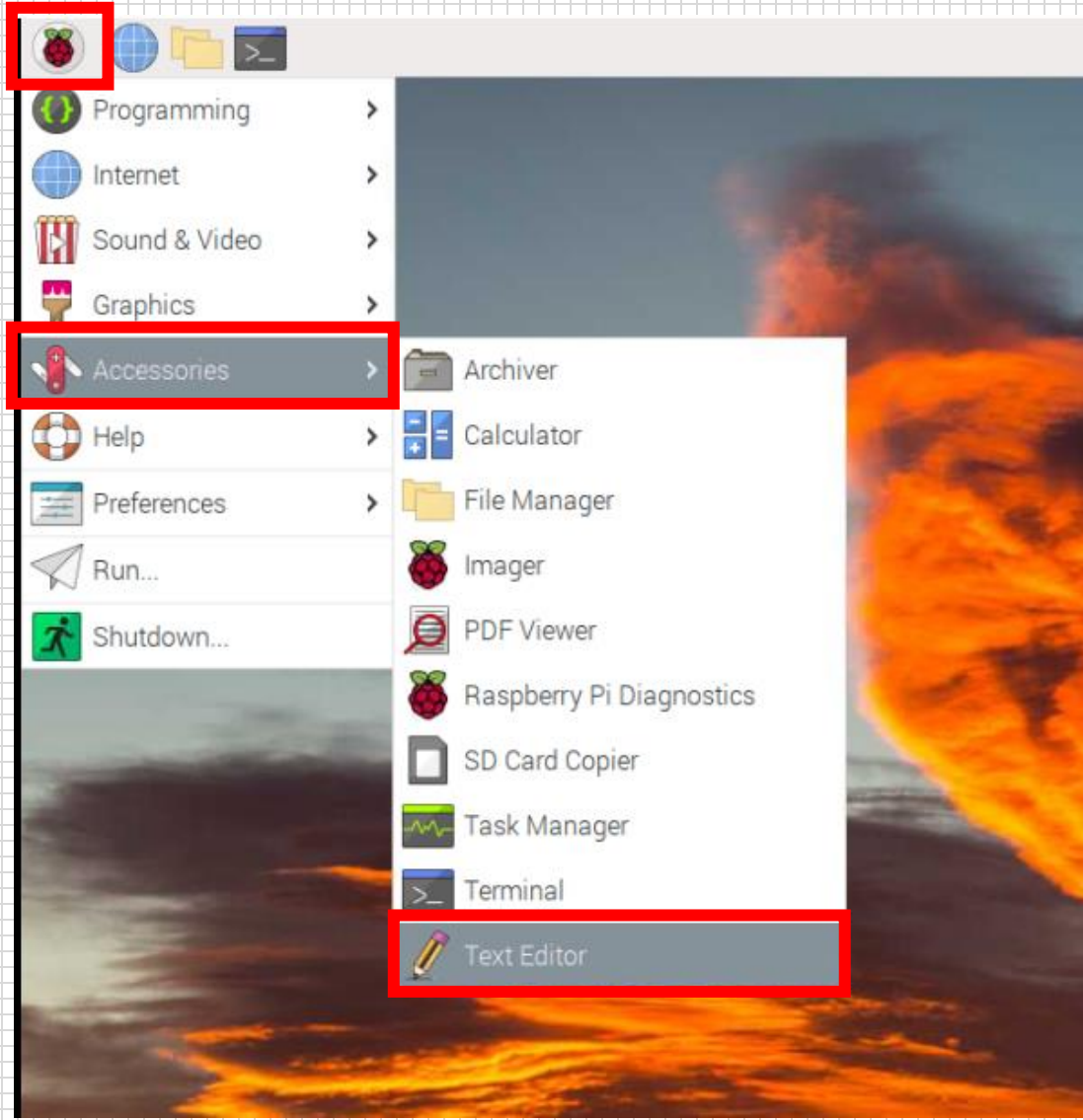


#### 14. Inout Method에서 Add 클릭하여 한글 추가(Korean)

-> ibus창 열린 상태에서 오른쪽 상단에 해당 모양 클릭 후 한글로 클릭하여 태극 무늬 조회

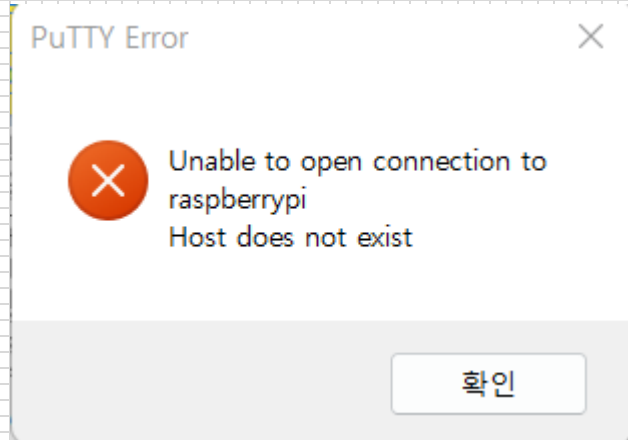


## 15. Text Editor 창 열어 한글 확인(글자깨짐, 글자 밀림 없는 지)



## 오류해결

- 자료영상과 동일하게 PuTTY 실행 후 raspberrypi 입력 시 해당 오류 출력



해결 방안 : raspberry pi 연결 후 시간 차를 두고 Open 시 접속 가능