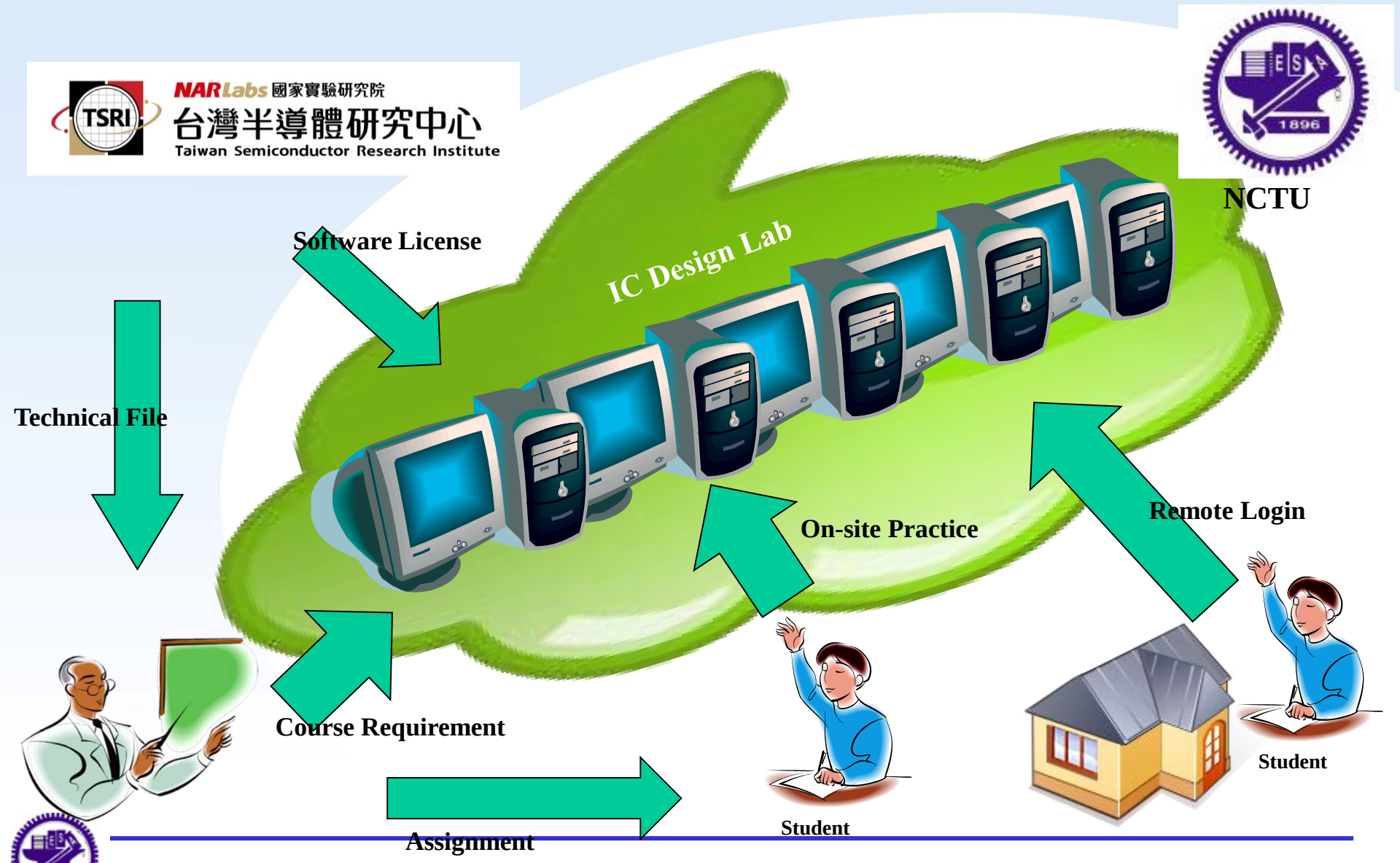
Lec00 Environment Setting

Environment



Work Station

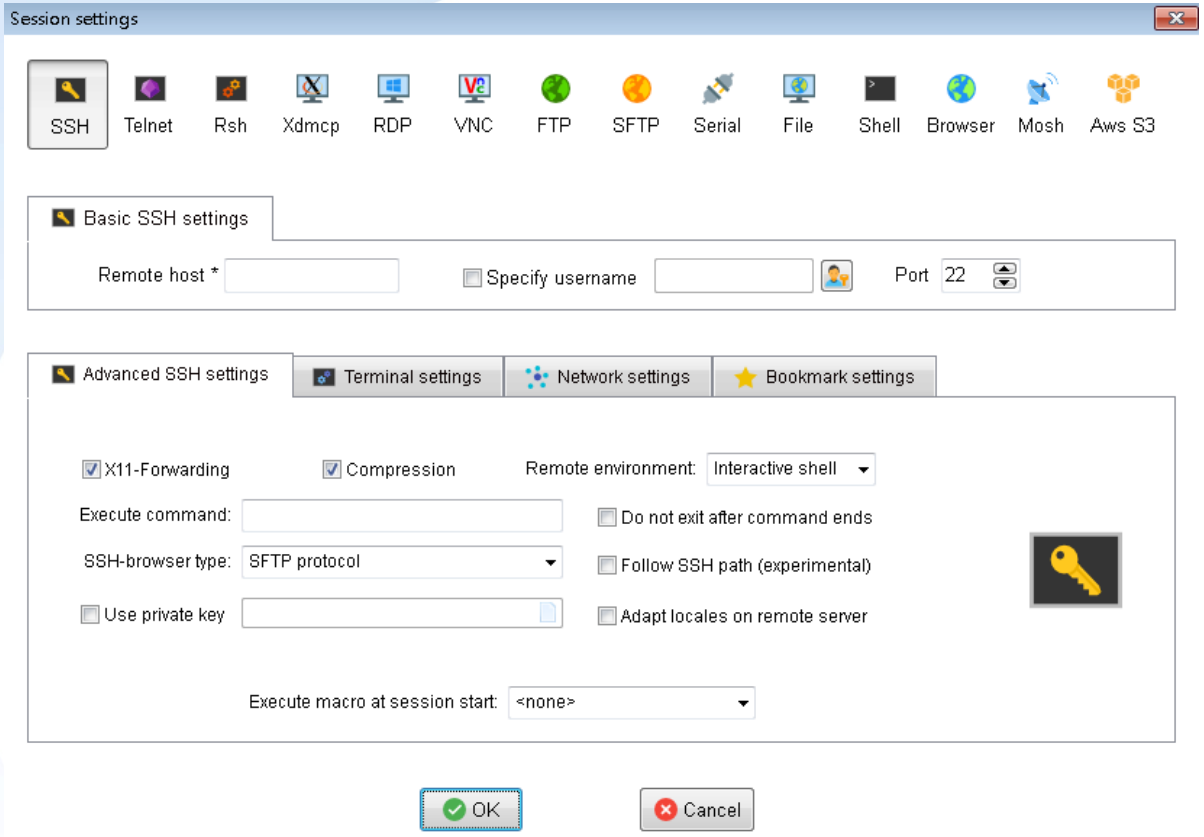
- **Use SSH to connect**
  - port = 22
- **140.113.169.144**
- **Account: 2023train_?? (?? = 01~09)**
- **Password: eecs**
- **Access**
  - Mobaxterm (Recommended)

Appendix:

- Putty + X-display software (Xwin-32, Xming) + FTP (Filezilla)
- Sublime

Mobaxterm

- ✓ **Default with X11 Forwarding**



- ✓ **Embedded sftp system**

Linux : Basic Operations

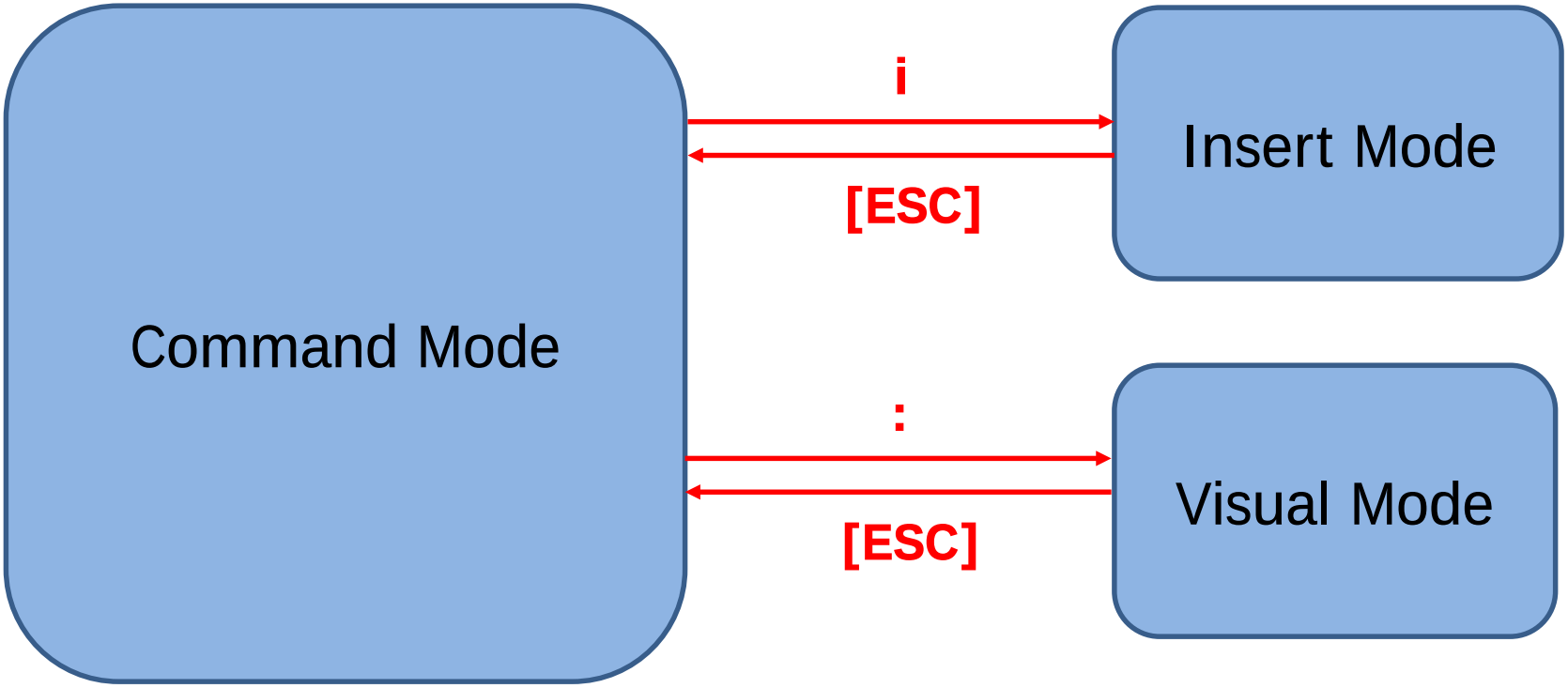
- ✓ **>man COMMAND** //format and display the on-line manual pages
  - ex: man ln
- ✓ **>mkdir DIRECTORY** //make directory
  - e.g. mkdir –p /home/test
- ✓ **>cd DESTINATION** //change current directory
  - e.g. cd ../iclab08/Lab01/
  - e.g. cd (change to home directory)
- ✓ **>cp SOURCE DESTINATION** //copy files
  - e.g. cp ABC.v DEF.v
  - e.g. cp –rf Lab01/ Lab02/
- ✓ **>mv SOURCE DESTINATION** //move or rename files
  - e.g. mv ABC.v ../ABC.v
  - e.g. mv ABC.v DEF.v

Linux : Basic Operations

- ✓ **>rm FILE_NAME** //remove (delete) files
  - e.g. rm ABC.v
  - e.g. rm –rf Lab01/
- ✓ **>ls** //list directory contents
  - e.g. ls –l
  - or you can use ***dir*** as well.
- ✓ **>ln TARGET LINK_NAME** //make links between files
  - e.g. ln –s ~iclabt01/LIB/slow.db slow.db
- ✓ **>quota** //display disk usage and limits
  - e.g. quota

On-line Text Editor – VIM

- ✓ **>vi filename** //create a file
  - e.g. vi test.v
  - e.g. vim test.v



On-line Text Editor – VIM

- ✓ **Command mode**
  - Move cursor:
    - [Page Down], [Page Up]
    - [Home], [End]
    - ↑(k)↓(j)←(h)→(l): move cursor
    - G: cursor moves to last column
    - nG: “n” is number. cursor moves to “n”th column
    - gg: cursor moves to the first column. (=1G)
    - n<Enter>: “n” is number. cursor moves down n columns.
  - Search & Replace:
    - /word: search for ”word”
    - n: search the next
    - N: search the previous

On-line Text Editor – VIM

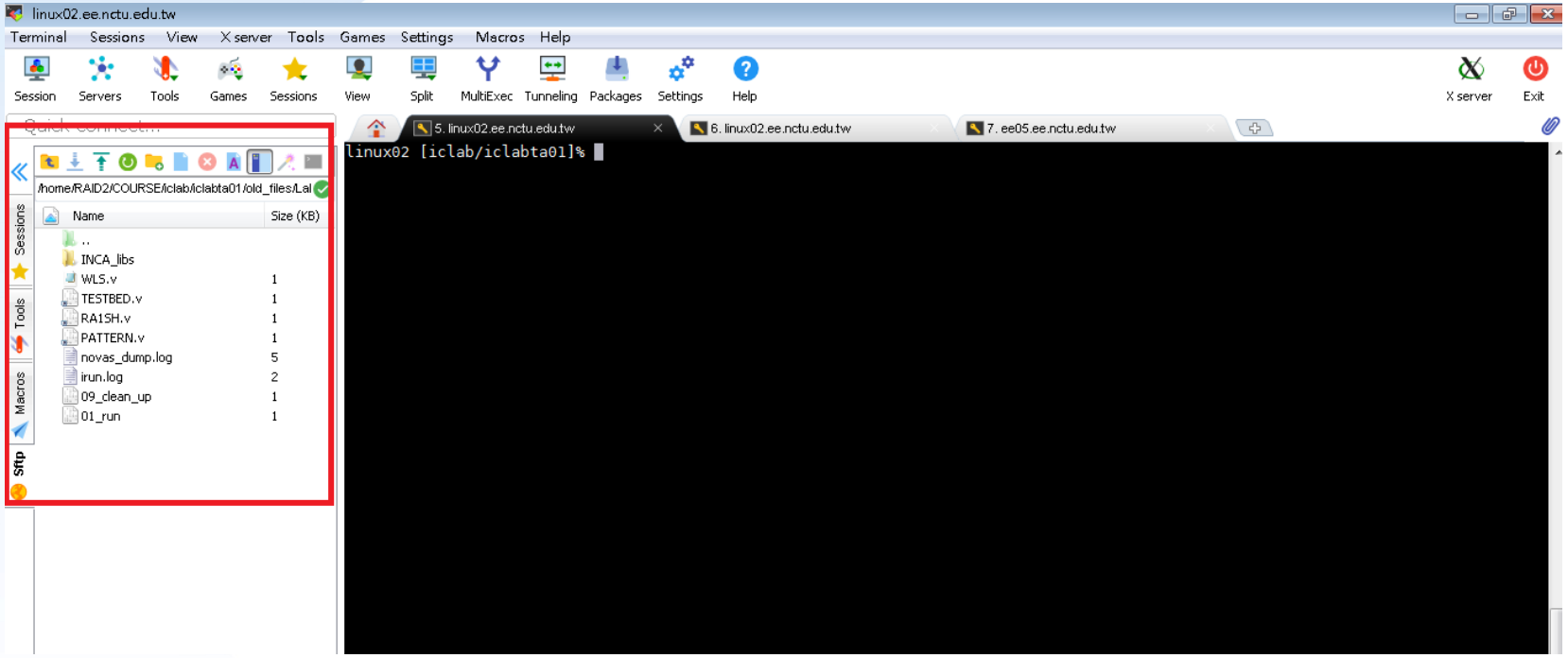
- Delete & Copy & Paste:
  - [delete] or x: delete the character under the cursor.
  - X: delete the character before the cursor.
  - dd: delete a column where the cursor located at.
  - ndd: “n” is number. delete “n” columns.
  - yy: copy a column where the cursor located at.
  - nyy: “n” is number. copy “n” columns.
  - u: recover.
  - . : repeat the previous action.
  - [Shift]+v : select the column where the cursor located at.
  - [Ctrl]+v+[Shift]+I : edit multi-line.

On-line Text Editor – VIM

- ✓ **Insert mode:**
  - i : switch to insert mode before the current position.
  - [Esc]: switch from the insert mode to the command mode
- ✓ **Visual mode:**
  - :w : write the current buffer to disk.
  - :q : closes current window.
  - :wq : write the current buffer to disk and closes current window.
  - :q! : closes current window forcibly.
  - :set nu : display the column number.

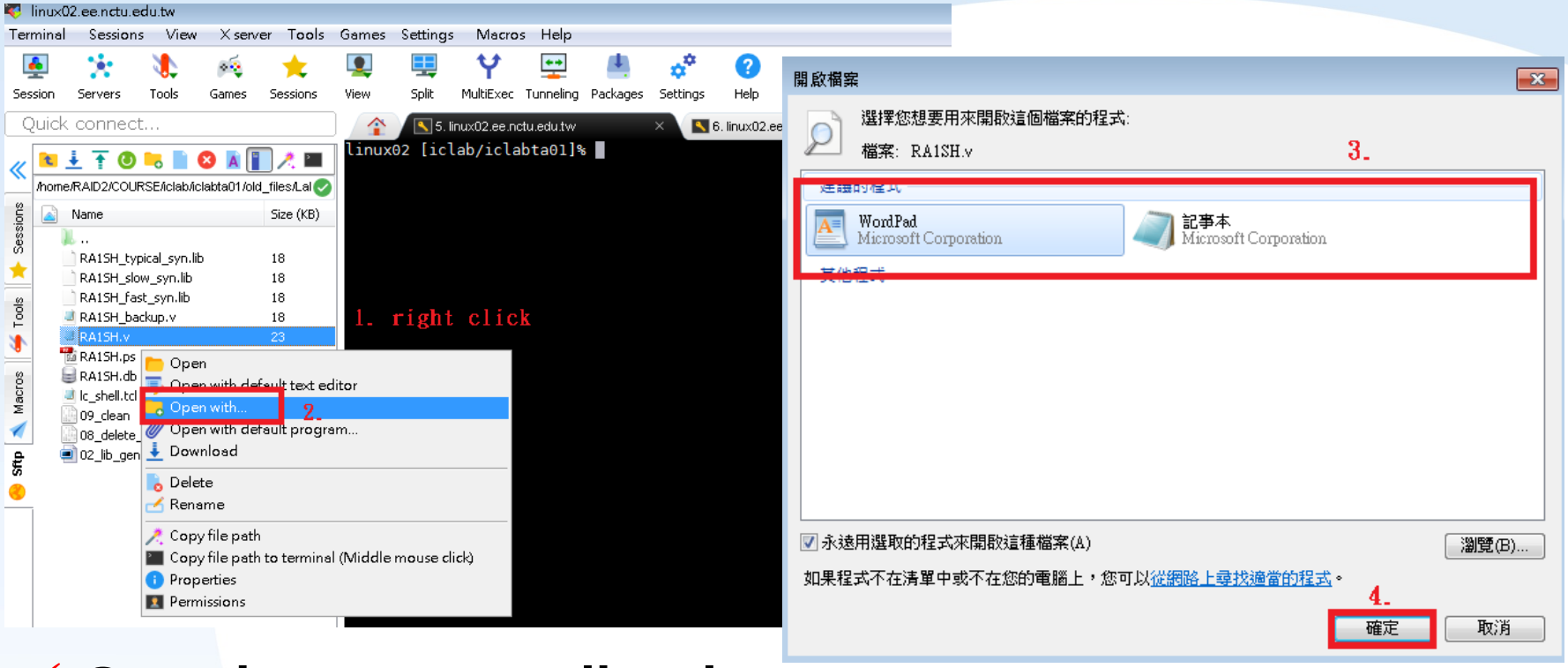
Editor

- ✓ **Download files,use your own editor and re-upload**
  - Manually
  - Supported by Mobaxterm



  - Mobaxterm will download files into local computer and open it

Editor



- ✓ **Can choose any editor in your computer**
- ✓ **If ‘notepad’ does not display clear, first use ‘wordpad’ to open it and save, then ‘notepad’ displays good**

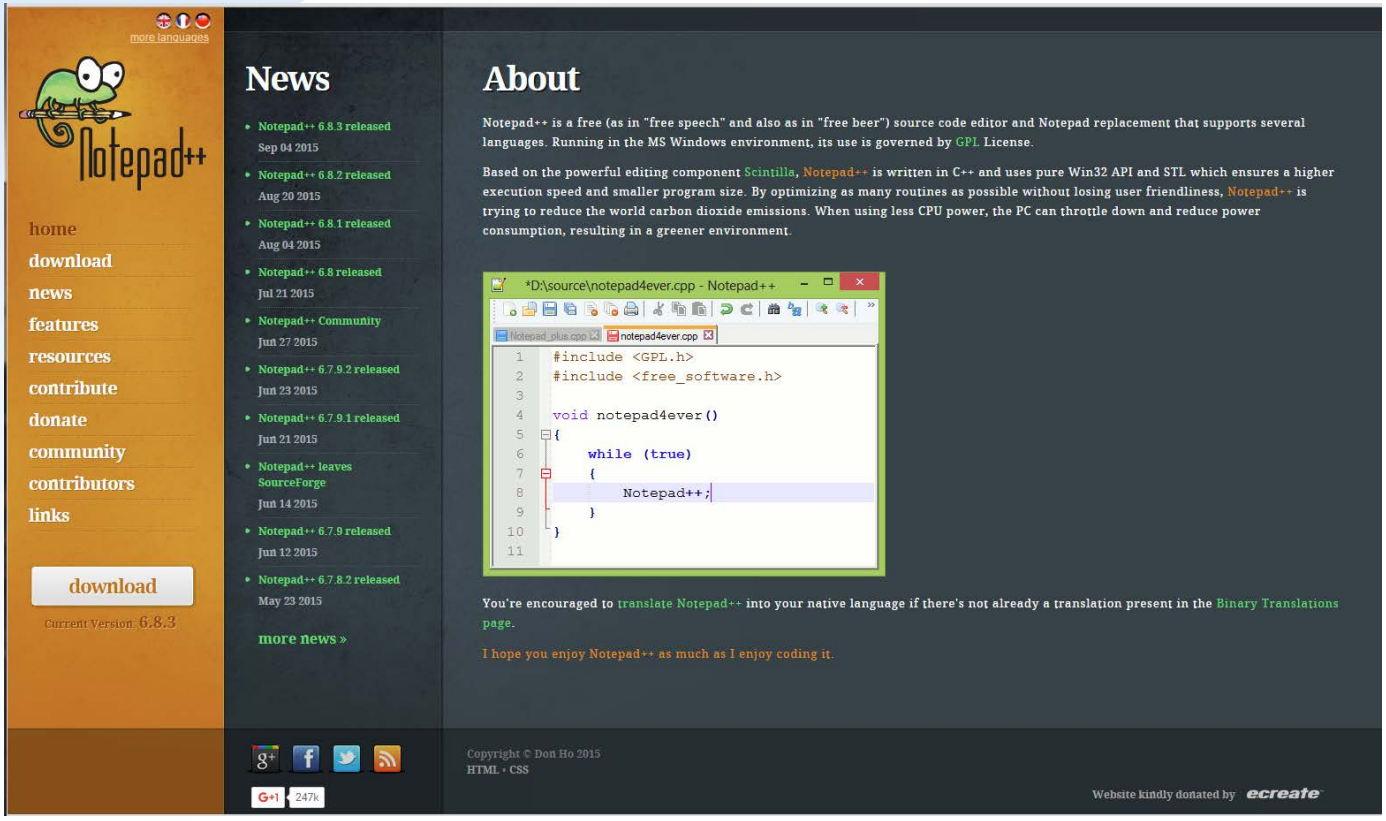
Appendix

- ✓ **Notepad ++**
- ✓ **Putty & Xming Setting**
  (Alternative Login Software of Windos)
- ✓ **Sublime Editor**
  (Recommended for Mac OS)

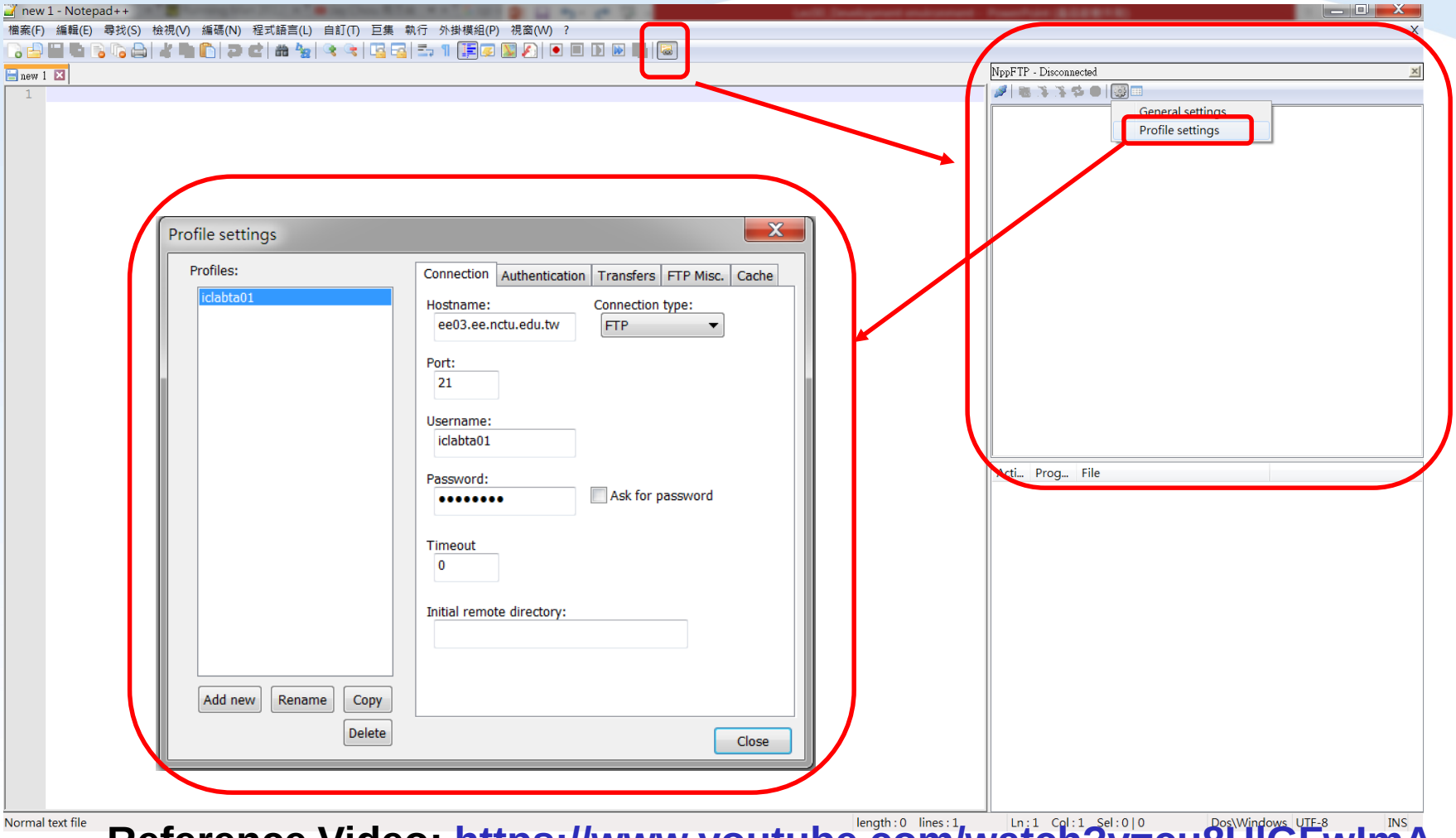
Notepad++

Text Editor – notepad++

https://notepad-plus-plus.org/repository/7.x/7.7.1/npp.7.7.1.Installer.x64.exe

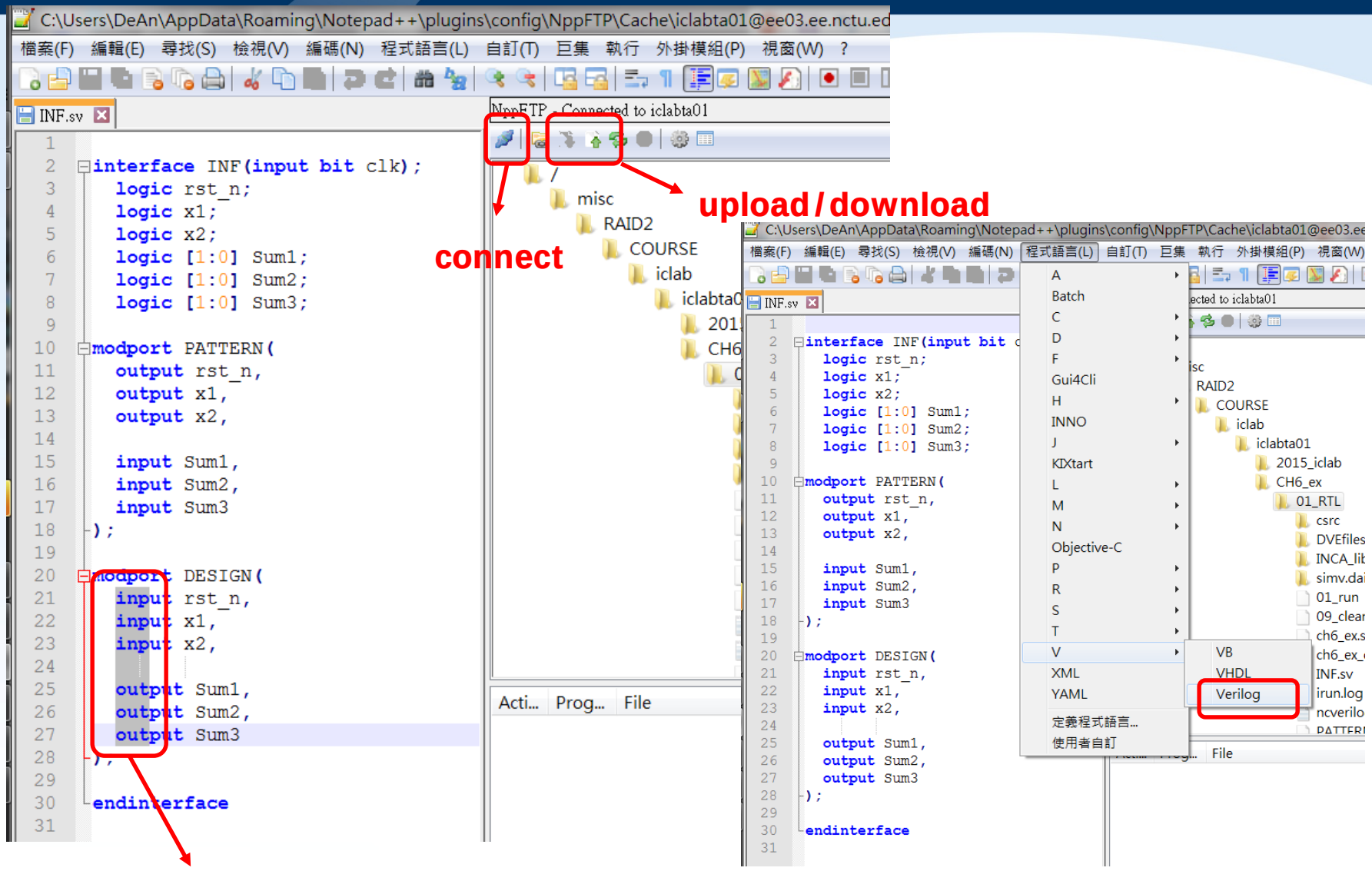


Text Editor – notepad++ setting



Reference Video: https://www.youtube.com/watch?v=cu8UlGFwImA

Text Editor – notepad++



Thanks