





# Homework #2

1. Start a new terminal, then do "mkdir homework2", then do "cd homework2"
2. do "mkdir test1", then do "mkdir test2", then do "mkdir test1/test3", then do "mkdir ~/homework2/test1/test4"
3. do "cd test1/test4", then do "touch a", then do "touch b", then do "touch ../../c", then do "touch ../d", then do "touch ../test3/e"
  - draw the directory structure of "~/homework2/"
  - describe the difference between "cd ~/homework2" and "cd ~homework2"
4. do "clear", then do "cd ..", then do "ls", then do "ls -a", then do "ls -al"
  - Take a screenshot 
  - Describe the difference between "ls", "ls -a", and "ls -al"
5. do "clear", then do "pwd", then do "cd .." then, do "pwd", do "cd test1/test4", then do "pwd", then do "cd ../../", then do "pwd", then do "cd ~/homework2/test1", then do "pwd"
  - Take a screenshot 
  - describe the meaning of ".." and "~"
6. do "cd ~/homework2", then do "tar cvf test1.tar test1", then do "tar zcvf test1.tar.gz test1", then do "tar jcvf test1.tar.bz2 test1", then do "zip test1\_1.zip test1", then do "zip -r test1.zip test1", then do "ls -al"
  - Take a screenshot 
  - Describe the difference between "zip test1\_1.zip test1" and "zip -r test1.zip test1".
  - Describe the size difference of compressed files and indicate which one is best in this situation.
7. do "clear", then do "rmdir test2", do "rmdir test1", then do "rm -rf test1", then do "tar zxvf test1.tar.gz"
  - Describe why "rmdir test1" cannot be operational
8. do "clear", then do "cat > menu", then insert "coffee","americano","latte","mocha","single", and "double", then press "ctrl+D", then do "cat -n menu", then do "head -n 2 menu", then do "tail -n 3 menu"
  - Take a screenshot 

## # Problems #

1. 유저 wendy와 peterpan을 위한 새로운 그룹 family를 만든다. Wendy와 peterpan은 이 그룹의 멤버가 된다.

-수행해야 할 명령어들을 순서대로 나열하고 그 역할을 설명하시오.

-결과의 확인을 위해 /etc/group파일의 내용을 tail로 출력하여 캡처한다. 📷

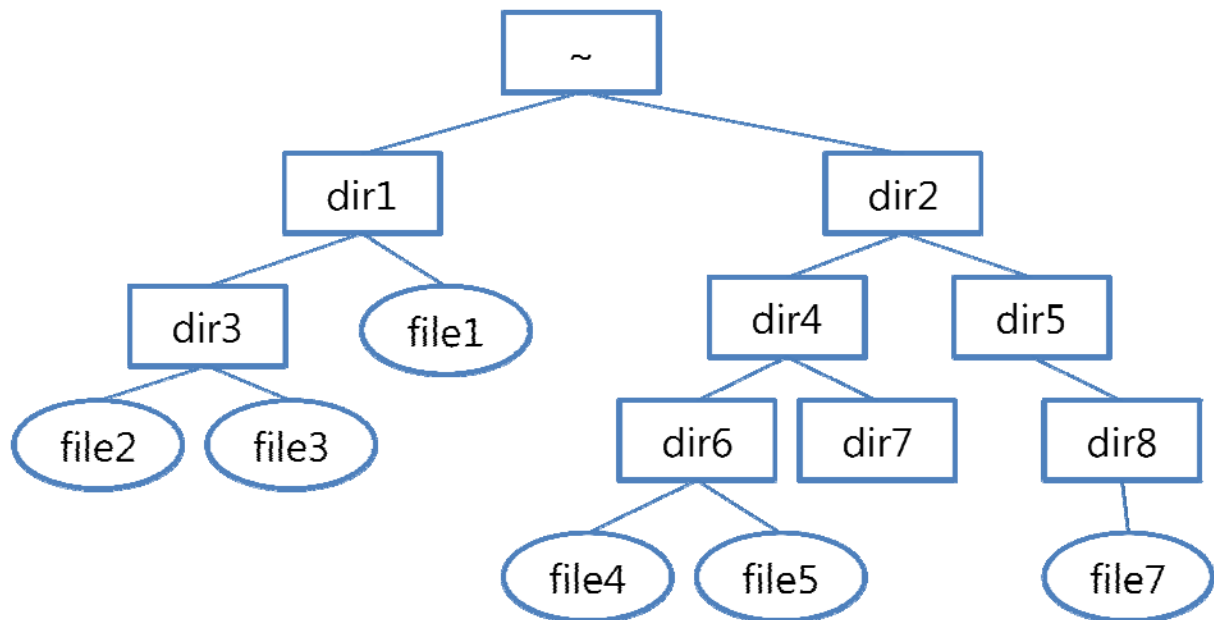
1. Create a new group "family" for wendy and peterpan. Wendy and peterpan should become members of the "family" group.

- List the required command in successive order, then explain the role of each command.

- For the purpose of verification, capture the contents of /etc/group by using tail command. 📷

2. 다음 그림을 보고 질문에 답하시오

2. Answer the questions with the following figure.



~: account home directory

1) 만약 "dir7"이 없다고 가정할 때, 현재 디렉토리 위치 "dir3"에서 "dir7"을 생성하기 위한 명령을 Relative Path와 Absolute Path를 이용하여 기술하시오.

1) If there is no "dir7" yet, describe the required command by using relative path, to create "dir7" from the current directory "dir3".

2) 만약 "file3"이 없다고 가정할 때, 현재 디렉토리 위치 "dir6"에서 "file3"을 생성하기 위한 명령을 Relative Path와 Absolute Path를 이용하여 기술하시오. (touch 명령어를 사용하시오)

1) If there is no "file3" yet, describe the required command by using relative path, to create "file3" from the current directory "dir6". (use touch command)

3. Linux 시스템에서 다음의 각 Directory들의 주 용도를 기술 하시오.

3. Describe the main purpose of each directory in Linux System

1) /bin

2) /etc

3) /var

4) /home

5) /boot