Homework #2

1. Start a new terminal, then do "cd ~", then do "mkdir directory_test", then do "cd directory_test"
2. do "mkdir test1", then do "mkdir test2", then do "mkdir test1/test3", then do "mkdir ~/directory_test/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"
   (1) draw the directory structure of "~/directory_test/"
   (2) describe the difference between "cd ~/directory_test" and "cd ~directory_test"

4. do "clear", then do "cd ..", then do "ls", then do "ls –a", then do "ls –al"
   (1) Take a screenshot
   (2) 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 ~/directory_test/test1", then do "pwd"
   (1) Take a screenshot
   (2) describe the meaning of ".." and "~"

6. do "cd ~/directory_test", 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"
   (1) Take a screenshot
   (2) Describe the difference between "zip test1_1.zip test1" and "zip –r test1.zip test1".
   (3) 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"
   (1) 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"
   (1) Take a screenshot

9. do “clear”, then do “cd ~”, then do “mkdir copy_test”, then do “cd copy_test”, then do “touch a b c d e”, then do “mkdir 1 2 3 3/3”, them do “mkdir -p 4/4”. Then do the following instructions.

(1) do “ls –R” then take a screenshot  and draw the directory structure of “~/copy_test” including files

(2) do “cp a x”, then do “mv b y”, then do “cp c 1”, then do “mv d 2”, then do “cp e 3/e”, then do “mv e 3/f”, then do “ls –R” then take a screenshot  and draw the directory structure of “~/copy_test” including files

(3) do “cp 1 5”, then do “cp –r 1 5”, then do “cp –r 1 4”, then do “mv 1 6”, then do “mv 2 6”, then take a screenshot  and draw the directory structure of “~/copy_test” including files

10. do “clear”, then do “cd ~/copy_test”, then do the following instructions.

(1) do “find . –print”, then take a screenshot 

(2) do “find . –name c –print”, then take a screenshot 

(3) do “find . –name c –exec rm {} ₩;”. What is the purpose of the first command?

Problems

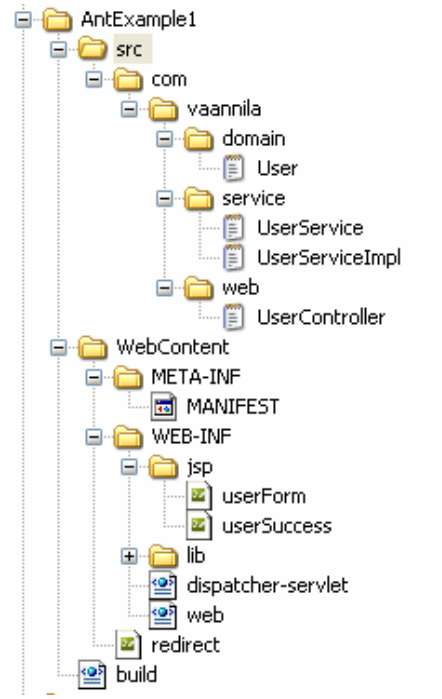
1. Create a new group "family" for wendy and peterpan. Wendy and peterpan should become members of the "family" group.

(1)List the required command in successive order, then explain the role of each command.

(2)For the purpose of verification, capture the contents of /etc/group by using tail command.

2. Create the following directory (and files) hierarchy. Then, capture the result of "ls –R" in order to confirm the created directory.

* Set the size of each file as 0 byte.



3. Create an archive of the above directory hierarchy where "AntExample1" is the name of the archive. (AntExample1.tar).

4. 1) Make directory : exclusion_directory inside AntExample1.

2) Make a test1.tar file with the exclusion_directory

3) Make a test2.tar file of AntExample1 without the exclusion_directory.

5. Create 'myfile_1.txt', 'myfile_2.txt' and 'myfile_3.txt'.

a. Create a new archive file named 'myarchive.zip' and add myfile_1.txt, myfile_2.txt.

b. Add myfile_3.txt in myarchive.zip using -u option.

c. Show contents of above archive file using command 'zip -sf myarchive.zip'

Take a screenshot .