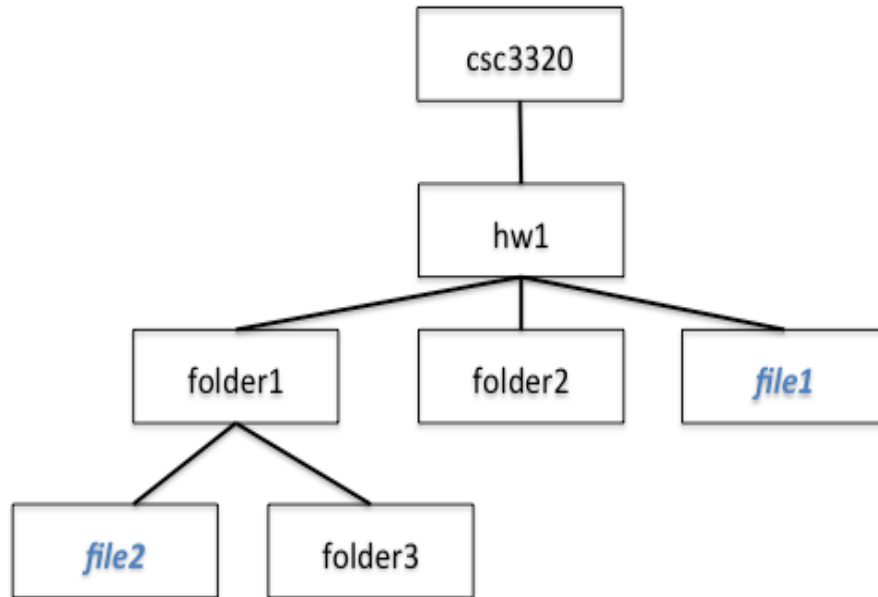# CSC3320 System Level Programming
Practice 1

Assuming the following directory structure.

To establish this directory structure, please copy the following commands one by one. Remember to use **Ctrl-D** as an end of file.

$mkdir   csc3320 csc3320/hw1 csc3320/hw1/folder1 csc3320/hw1/folder2 csc3320/hw1/folder1/folder3

$cd csc3320/hw1

$cat > file1
This is file1
^D

$cd folder1

$cat > file2
This is file 2
^D

Then please write the commands you will issue to complete the following tasks step by step.

(1) Output the pathname for current working directory.
pwd

(2) Go to directory *hw1*.
cd   ../

(3) Use ls to list all the files and directories under folder *hw1*.
ls

(4) Rename *file1* as *file1.bak* .
mv   file1   file1.bak

(5) Move file1.bak to folder1 .
mv   file1.bak   folder1

(6) Create a folder named as "folder4" under *hw1*.
mkdir folder4 **or** **mkdir ./folder4**

(7) Remove *folder2*.
rm –r folder2 **or** **rm folder2** **or** **rmdir folder2**

(8) Go to *folder3* with absolute path.
cd (pathname generated at 1)/folder1/folder3

(9) Go to *folder4* with relative path.
cd ../../folder4

(10) Remove all the files and folders under folder *csc3320*.
rm –r ../../* **or** **rm -r ../../hw1**

or **cd ../../ and then rm –r hw1**

Part 1: Creating the file structures used in this Practice

yuanlong@yuanlong-VirtualBox:~$ **clear**
yuanlong@yuanlong-VirtualBox:~$ **ls**
Desktop   examples.desktop Public   test1   Videos
Documents Music   Templates test2
Downloads Pictures   test   testcsc3320
yuanlong@yuanlong-VirtualBox:~$ **mkdir   csc3320   csc3320/hw1**
csc3320/hw1/folder1   csc3320/hw1/folder2   csc3320/hw1/folder1/folder3
yuanlong@yuanlong-VirtualBox:~$ **ls**
csc3320   Downloads   Pictures   test testcsc3320
Desktop   examples.desktop Public   test1 Videos
Documents Music   Templates test2
yuanlong@yuanlong-VirtualBox:~$ **cd csc3320/hw1**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **cat>file1**
This is file 1
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **cd folder1**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder1$ **ls**
folder3
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder1$ **cat>file2**
This is file 2

Part 2: Commands used for answering question 1 to 10

yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder1$ **pwd**
/home/yuanlong/csc3320/hw1/folder1
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder1$ **cd ..**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ ls
file1 folder1 folder2
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **mv file1 file1.bak**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **ls**
file1.bak folder1 folder2
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **mv file1.bak folder1**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **ls**
folder1 folder2
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **ls folder1**
file1.bak file2 folder3
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **mkdir folder4**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **ls**
folder1 folder2 folder4
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **rm folder2**
rm: cannot remove 'folder2': Is a directory
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **rm -r folder2**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **ls**
folder1 folder4

yuanlong@yuanlong-VirtualBox:~/csc3320/hw1$ **cd folder1/folder3**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder1/folder3$ **cd ../../folder4**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder4$ **ls**
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder4$ **rm ../../***
rm: cannot remove '../../hw1': Is a directory
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder4$ **rm -r ../../***
yuanlong@yuanlong-VirtualBox:~/csc3320/hw1/folder4$ **cd ../../**
yuanlong@yuanlong-VirtualBox:~/csc3320$ **ls**