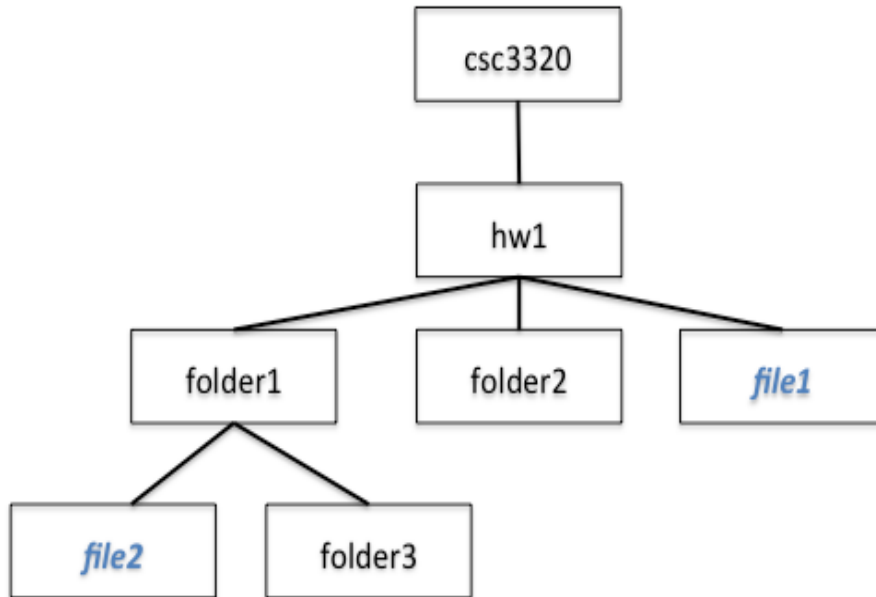


CSC3320 System Level Programming Practice 1

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 [Note: This is a single command line]
```

```
$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 by pwd)/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
```