강의명: 자료구조

숙제 번호: 1

숙제 제목: Linux programming server(리눅스 프로그래밍 서버)

학생 이름: 김성현

학번: 201910783

1. Login 및 password 수정

1.1

Host 이름: oak.smu.ac.kr

TCP port 번호: 22022

명령어: passwd

수행 화면:

s1910783@oak:~$ passwd

Changing password for s1910783.

(current) UNIX password:

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

1.2

명령어: logout

1.3

Login 되었습니다.

2. Home directory

2.1

명령어(1개): pwd

수행화면:

s1910783@oak:~$ pwd

/home/s1910783

2.2

명령어(2개):

cd ../clang/linux

ls -l

수행화면:

s1910783@oak:~$ cd ../clang/linux

s1910783@oak:linux$ ls -l

total 48

-rw-r--r-- 1 dshin dshin 7115 8월 27 2019 bigfile 🡺 file

drwxr-xr-x 2 dshin dshin 4096 8월 27 2019 dir1 🡺 directory

drwxr-xr-x 2 dshin dshin 4096 8월 27 2019 dir2 🡺 directory

-rw-r--r-- 1 dshin dshin 0 8월 27 2019 empty 🡺 file(empty)

-rwxr-xr-x 1 dshin dshin 8608 8월 27 2019 fctable 🡺 file

-rw-r--r-- 1 dshin dshin 430 8월 27 2019 fctable.c 🡺 file

-rwxr-xr-x 1 dshin dshin 8600 8월 27 2019 hello 🡺 file

-rw-r--r-- 1 dshin dshin 68 8월 27 2019 hello.c 🡺 file

2.3

명령어(3개):

pwd

cd ~

pwd

수행화면:

s1910783@oak:linux$ pwd

/home/clang/linux

s1910783@oak:linux$ cd ~

s1910783@oak:~$ pwd

/home/s1910783

3. File properties(파일 특성)

3.1

명령어: stat /home/clang/linux/bigfile

수행화면:

s1910783@oak:linux$ stat /home/clang/linux/bigfile

File: '/home/clang/linux/bigfile'

Size: 7115 Blocks: 16 IO Block: 4096 regular file

Device: 801h/2049d Inode: 9967722 Links: 1

Access: (0644/-rw-r--r--) Uid: ( 1000/ dshin) Gid: ( 1000/ dshin)

Access: 2020-03-27 20:27:18.289661262 +0900

Modify: 2019-08-27 22:12:13.170029145 +0900

Change: 2019-08-27 22:12:13.170029145 +0900

Birth: -

3.2

명령어: stat /home/clang/linux/dir1

수행화면:

s1910783@oak:linux$ stat /home/clang/linux/dir1

File: '/home/clang/linux/dir1'

Size: 4096 Blocks: 8 IO Block: 4096 directory

Device: 801h/2049d Inode: 9967725 Links: 2

Access: (0755/drwxr-xr-x) Uid: ( 1000/ dshin) Gid: ( 1000/ dshin)

Access: 2020-03-27 20:27:18.289661262 +0900

Modify: 2019-08-27 22:12:13.170029145 +0900

Change: 2019-08-27 22:12:13.170029145 +0900

Birth: -

(초록🡺user / 하늘🡺group / 보라🡺other)

3.3

user: rwx 🡺 read, write, execute 즉 읽기/쓰기/수행 셋 다 가능(4+2+1=7)

group: r-x 🡺 read, execute 즉 읽기/수행 두 가지 가능(4+1=5)

other: r-x 🡺 read, execute 즉 읽기/수행 두 가지 가능(4+1=5)

4. File/directory operations

4.1

명령어:

mkdir -p ds/hwo1

cd ./ds/hw01

pwd

수행화면:

s1910783@oak:~$ mkdir -p ds/hw01

s1910783@oak:~$ cd ./ds/hw01

s1910783@oak:hw01$ pwd

/home/s1910783/ds/hw01

숙제 디렉토리와 같습니다.

4.2

명령어:

cp -r /home/clang/linux /home/s1910783/ds/hw01

ls -l

cd ./linux

ls -l

수행화면:

s1910783@oak:hw01$ cp -r /home/clang/linux /home/s1910783/ds/hw01

s1910783@oak:hw01$ ls -l

total 4

drwxr-xr-x 4 s1910783 students 4096 3월 27 21:56 linux

s1910783@oak:hw01$ ls

linux

s1910783@oak:hw01$ cd ./linux

s1910783@oak:linux$ ls -l

total 48

-rw-r--r-- 1 s1910783 students 7115 3월 27 21:56 bigfile

drwxr-xr-x 2 s1910783 students 4096 3월 27 21:56 dir1

drwxr-xr-x 2 s1910783 students 4096 3월 27 21:56 dir2

-rw-r--r-- 1 s1910783 students 0 3월 27 21:56 empty

-rwxr-xr-x 1 s1910783 students 8608 3월 27 21:56 fctable

-rw-r--r-- 1 s1910783 students 430 3월 27 21:56 fctable.c

-rwxr-xr-x 1 s1910783 students 8600 3월 27 21:56 hello

-rw-r--r-- 1 s1910783 students 68 3월 27 21:56 hello.c

4.3

명령어:

ls

cd ./linux

ls -l

수행화면:

s1910783@oak:hw01$ ls

linux

s1910783@oak:hw01$ cd ./linux

s1910783@oak:linux$ ls -l

total 48

-rw-r--r-- 1 s1910783 students 7115 3월 27 21:56 bigfile

drwxr-xr-x 2 s1910783 students 4096 3월 27 21:56 dir1

drwxr-xr-x 2 s1910783 students 4096 3월 27 21:56 dir2

-rw-r--r-- 1 s1910783 students 0 3월 27 21:56 empty

-rwxr-xr-x 1 s1910783 students 8608 3월 27 21:56 fctable

-rw-r--r-- 1 s1910783 students 430 3월 27 21:56 fctable.c

-rwxr-xr-x 1 s1910783 students 8600 3월 27 21:56 hello

-rw-r--r-- 1 s1910783 students 68 3월 27 21:56 hello.c

5. File editing and compile

5.1

명령어:

cd ~

cd ./ds/hw01/linux

cat hello.c

수행화면:

s1910783@oak:linux$ cd ~

s1910783@oak:~$ cd ./ds/hw01/linux

s1910783@oak:linux$ cat hello.c

#include <stdio.h>

void main(void)

{

printf("hello, world\n");

}

5.2

Emacs 명령어 사용:

emacs hello.c : emacs editor로 hello.c 파일 열기.

^X^S : Save, 저장

^X^C : Save and quit, 저장 후 나가기

5.3

명령어:

gcc hello.c -o hello

./hello

수행화면:

s1910783@oak:linux$ gcc hello.c -o hello

s1910783@oak:linux$ ./hello

hello, world

hello, world

hello, world

hello, world

hello, world

6. File editing and compile

6.1

Emacs 명령어:

emacs fctable.c

^X^S

^X^C

6.2

명령어: gcc fctable.c -o fctable

6.3

수행 후 화면:

s1910783@oak:linux$ ./fctable

40 4

50 10

60 15

70 21

80 26

90 32

100 37

110 43

120 48

끝.