

[shell script 프로그래밍 실습_20212222_최다은]

1번. ex3-0.sh

```
1 /bin/sh
2
3 echo "hello world"
4
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-0.sh
hello world
```

2번. ex3-1.sh

```
1 /bin/bash
2
3 if [ $a -eq 0 ]; then
4     while true; do
5         echo "hello world"
6     done
7 else
8     count=$1
9     for i in $(seq 1 $count)
10    do
11        echo "hello world"
12    done
13 fi
14 exit 0
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-1.sh 3
hello world
hello world
hello world
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-1.sh 0
hello world
hello world
hello world
hello world
hello world
hello world
hello world
```

3번. ex3-2.sh

```
1 /bin/sh
2
3 num1=$1
4 operator=$2
5 num2=$3
6 case "$operator" in
7     "+")
8         result=$((num1 + num2))
9         ;;
10    "-")
11        result=$((num1 - num2))
12        ;;
13 esac
14 echo "$result"
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-2.sh 3 - 2
1
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-2.sh 5 + 10
15
```

4번. ex3-3.sh

```
1 /bin/sh
2
3 w=$1
4 h=$2
5 h=$((scale=2; $h / 100))
6 temp=$((scale=2; $h * $h))
7 bml=$((scale=2; $w / $temp))
8
9 if [ $(echo "$scale=2; $bml < 10.5" | bc) -eq 1 ];
10 then
11     echo "저체중입니다."
12 elif [ $(echo "$scale=2; $bml < 23" | bc) -eq 1 ];
13 then
14     echo "정상체중입니다."
15 else
16     echo "과체중입니다."
17 fi
18
19 exit 0
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-3.sh 50 170
저체중입니다.
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-3.sh 65 169
정상체중입니다.
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-3.sh 150 170
과체중입니다.
```

5번. ex3-4.sh

```
1 /bin/sh
2
3 echo "리눅스가 재미있나요? (yes / no)"
4 read words
5 case $words in
6     no | nonono) echo "no"
7     ;;
8     yes | Y) echo "yes"
9     ;;
10    *) echo "yes or no로 입력해주세요."
11 esac
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-4.sh
리눅스가 재미있나요? (yes / no)
Y
yes
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-4.sh
리눅스가 재미있나요? (yes / no)
nonono
no
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-4.sh
리눅스가 재미있나요? (yes / no)
helloWorld!
yes or no로 입력해주세요.
```

6번. ex3-5.sh

```
1 /bin/bash
2
3 execute_ls_command() {
4     if [ -z "$1" ]; then
5         ls
6     else
7         ls "$1"
8     fi
9 }
10 echo "프로그램을 시작합니다."
11 echo "항수 안으로 들어 왔음"
12 execute_ls_command "$1"
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-5.sh
프로그램을 시작합니다.
항수 안으로 들어 왔음
ex3-0.sh ex3-3.sh ex3-6.sh ex3-9.sh 다운로드 비디오 템플릿
ex3-1.sh ex3-4.sh ex3-7.sh snap 문서 사진
ex3-2.sh ex3-5.sh ex3-8.sh 공개 방향화면 음악
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-5.sh -l
프로그램을 시작합니다.
항수 안으로 들어 왔음
합계 76
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 31 10월 31 11:06 ex3-0.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 167 11월 4 10:52 ex3-1.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 186 11월 4 18:54 ex3-2.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 245 11월 4 19:50 ex3-3.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 186 11월 4 19:53 ex3-4.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 188 11월 4 20:26 ex3-5.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 556 11월 6 22:16 ex3-6.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 276 11월 6 22:35 ex3-7.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 103 11월 6 22:45 ex3-8.sh
-rw-rw-r-- 1 opnsrc2023 opnsrc2023 84 11월 6 23:03 ex3-9.sh
drwx----- 3 opnsrc2023 opnsrc2023 4096 9월 14 22:49 snap
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 공개
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 10월 31 23:50 다운로드
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 문서
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 방향화면
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 비디오
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 사진
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 음악
drwxr-xr-x 2 opnsrc2023 opnsrc2023 4096 9월 14 22:48 템플릿
```

7번. ex3-6.sh

```
1 /bin/bash
2
3 new_folder() {
4     folder_name=$1
5     if [ -d "$folder_name" ]; then
6         echo "폴더가 이미 존재합니다."
7     else
8         mkdir "$folder_name"
9         echo "폴더가 생성되었습니다."
10    fi
11    cd "$folder_name" || exit
12    read f1 f2 f3 f4 f5 tar_name
13    new_files "$f1" "$f2" "$f3" "$f4" "$f5"
14
15    tar -cvzf "$tar_name" "$f1" "$f2" "$f3" "$f4" "$f5"
16    mkdir "$folder_name"
17    tar -xvzf "$tar_name" -C "$folder_name"
18    mv "$tar_name" "$folder_name"
19 fi
20
21 }
22 new_files() {
23     for file in $@; do
24         touch "$file"
25     done
26 }
27 new_folder $1
```

```
opnsrc2023@daun-15290N-VRS0K:~$ sh ./ex3-6.sh files
폴더가 생성되었습니다.
1.txt 2.txt 3.txt 4.txt 5.txt files.tar
1.txt
2.txt
3.txt
4.txt
5.txt
1.txt
2.txt
3.txt
4.txt
5.txt
opnsrc2023@daun-15290N-VRS0K:~$ ls
ex3-0.sh ex3-1.sh ex3-2.sh ex3-3.sh ex3-4.sh ex3-5.sh ex3-6.sh ex3-7.sh ex3-8.sh ex3-9.sh
opnsrc2023@daun-15290N-VRS0K:~$ cd files
opnsrc2023@daun-15290N-VRS0K:~/files$ ls
1.txt 2.txt 3.txt 4.txt 5.txt files
opnsrc2023@daun-15290N-VRS0K:~/files$ cd files
opnsrc2023@daun-15290N-VRS0K:~/files/files$ ls
1.txt 2.txt 3.txt 4.txt 5.txt files.tar
```

8번. ex3-7.sh

```
1 #!/bin/bash
2
3 folder_name="S1"
4 if [ ! -d "$folder_name" ]; then
5     mkdir "$folder_name"
6 fi
7 cd "$folder_name"
8
9 for i in 0 1 2 3 4
10 do
11     file_name="file${i}.txt"
12     touch "$file_name"
13
14     folder="files${i}"
15     mkdir "$folder"
16     ln -s ../$file_name "$folder/$file_name"
17 done

opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-7.sh nfiles
opnsrc2023@daeun-15290N-VRS0K1:~$ ls
ex3-0.sh ex3-1.sh ex3-2.sh ex3-3.sh ex3-4.sh ex3-5.sh ex3-6.sh ex3-7.sh ex3-8.sh ex3-9.sh files nfiles snap 공개 다운로드 문서 바탕화면 비디오 사진 음악 템플릿
opnsrc2023@daeun-15290N-VRS0K1:~$ cd nfiles
opnsrc2023@daeun-15290N-VRS0K1:~/nfiles$ ls
file0 file0.txt file1 file1.txt file2 file2.txt file3 file3.txt file4 file4.txt
opnsrc2023@daeun-15290N-VRS0K1:~/nfiles$ cd file0
opnsrc2023@daeun-15290N-VRS0K1:~/nfiles/file0$ ls
file0.txt
opnsrc2023@daeun-15290N-VRS0K1:~/nfiles/file0$ ll
합계 8
drwxrwxr-x 2 opnsrc2023 opnsrc2023 4096 11월 7 13:38 ./
drwxrwxr-x 7 opnsrc2023 opnsrc2023 4096 11월 7 13:38 ../
lrwxrwxrwx 1 opnsrc2023 opnsrc2023 12 11월 7 13:38 file0.txt -> ../file0.txt
```

9번. ex3-8.sh

```
1 #!/bin/sh
2 name="S1"
3 number="S2"
4
5 if [ ! -f "DB.txt" ]; then
6     touch "DB.txt"
7 fi
8
9 echo "$1 $2" >> DB.txt

opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-8.sh Lee 010-1234-5678
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-8.sh Park 010-1234-XXXX
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-8.sh Choi 010-AAAA-XXXX
opnsrc2023@daeun-15290N-VRS0K1:~$ ls
DB.txt ex3-0.sh ex3-1.sh ex3-2.sh ex3-3.sh ex3-4.sh ex3-5.sh ex3-6.sh ex3-7.sh ex3-8.sh ex3-9.sh files nfiles snap 공개 다운로드 문서 바탕화면 비디오 사진 음악 템플릿
opnsrc2023@daeun-15290N-VRS0K1:~$ cat DB.txt
Lee 010-1234-5678
Park 010-1234-XXXX
Choi 010-AAAA-XXXX
opnsrc2023@daeun-15290N-VRS0K1:~$ echo "--my friends--" > DB.txt
opnsrc2023@daeun-15290N-VRS0K1:~$ cat DB.txt
--my friends--
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-8.sh Lim 010-0000-9999
opnsrc2023@daeun-15290N-VRS0K1:~$ cat DB.txt
--my friends--
Lim 010-0000-9999
```

10번. ex3-9.sh

```
1 #!/bin/bash
2
3 name="S1"
4 if [ ! -f "DB.txt" ]; then
5     exit 1
6 fi
7
8 grep "$sname" "DB.txt"

opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-9.sh Lim
Lim 010-0000-9999
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-9.sh L
Lim 010-0000-9999
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-9.sh Kim
opnsrc2023@daeun-15290N-VRS0K1:~$ sh ./ex3-9.sh 9999
Lim 010-0000-9999
opnsrc2023@daeun-15290N-VRS0K1:~$
```