

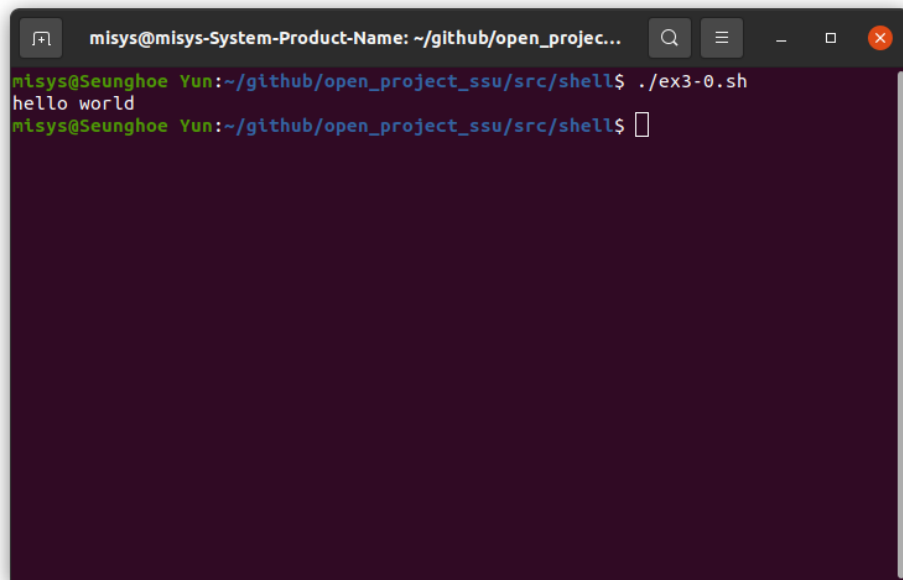
2022.10.07~2022.10.28**1. 주제 (10점)**

Shell programming

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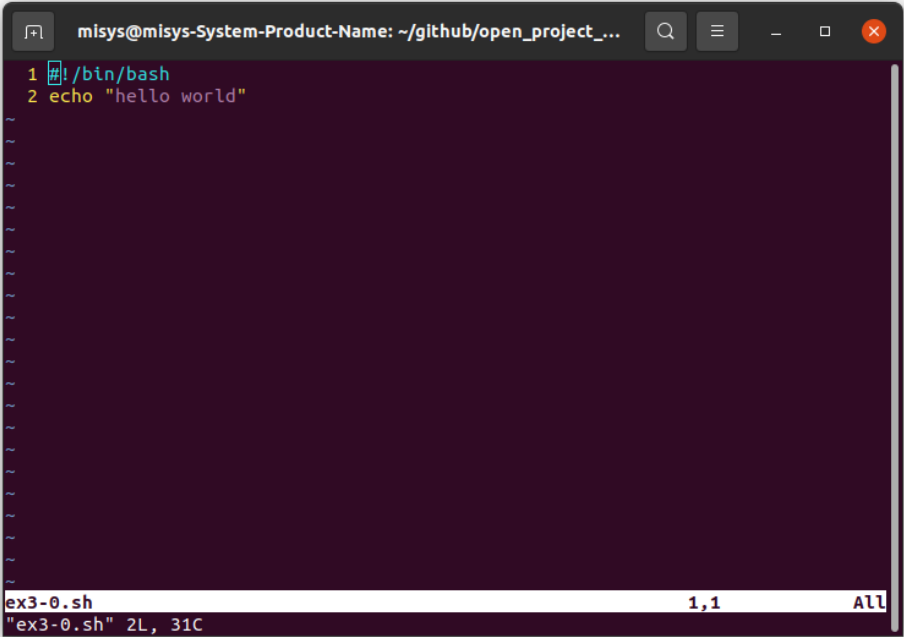
Ex3-0

결과 이미지A terminal window with a dark purple background. The title bar shows 'misys@misys-System-Product-Name: ~/github/open_projec...'. The prompt is 'misys@Seunghoe Yun:~/github/open_project_ssu/src/shell\$'. The user enters './ex3-0.sh' and the output is 'hello world'. The prompt returns to 'misys@Seunghoe Yun:~/github/open_project_ssu/src/shell\$' with a cursor.

```
misys@misys-System-Product-Name: ~/github/open_projec...
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-0.sh
hello world
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$
```

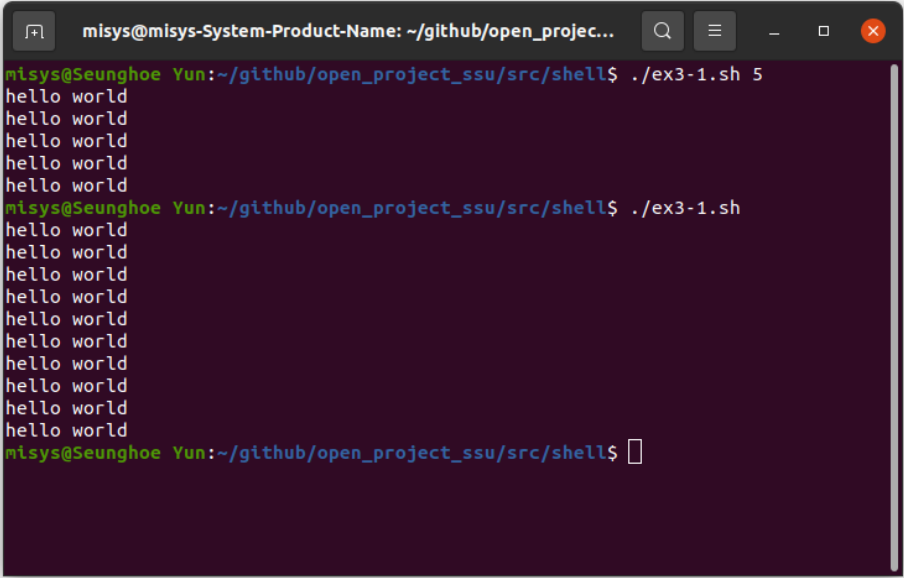
코드

2022.10.07~2022.10.28



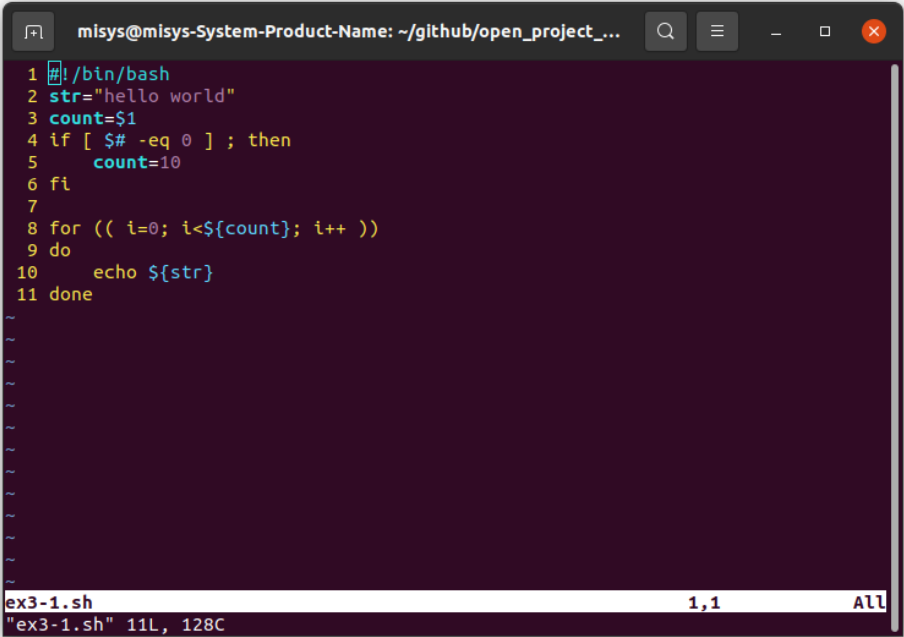
Ex3-1

결과 이미지



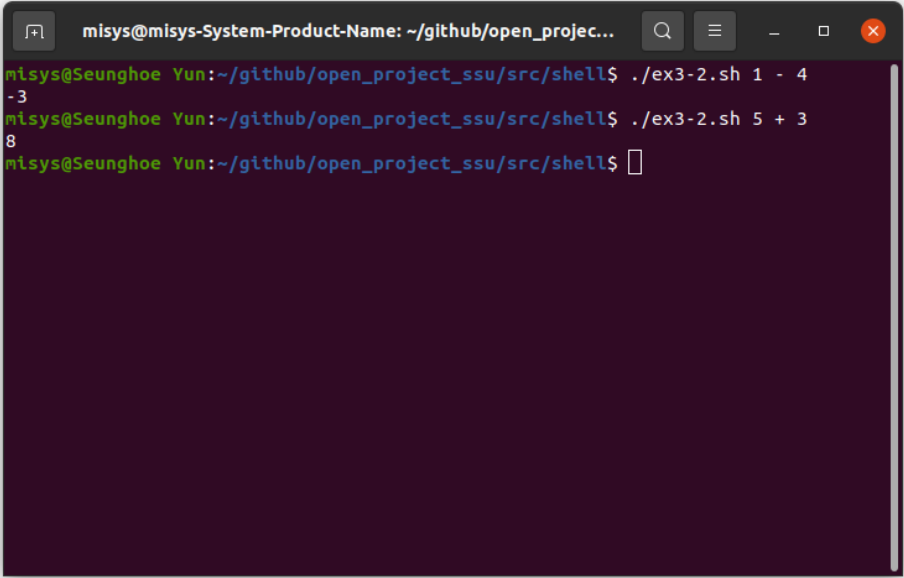
코드

2022.10.07~2022.10.28



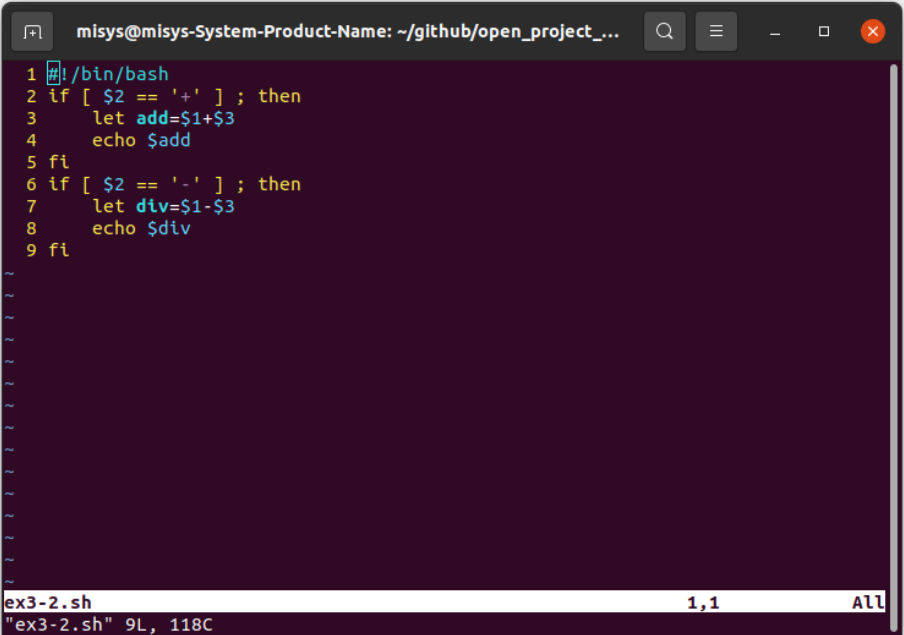
Ex3-2

결과 이미지



코드

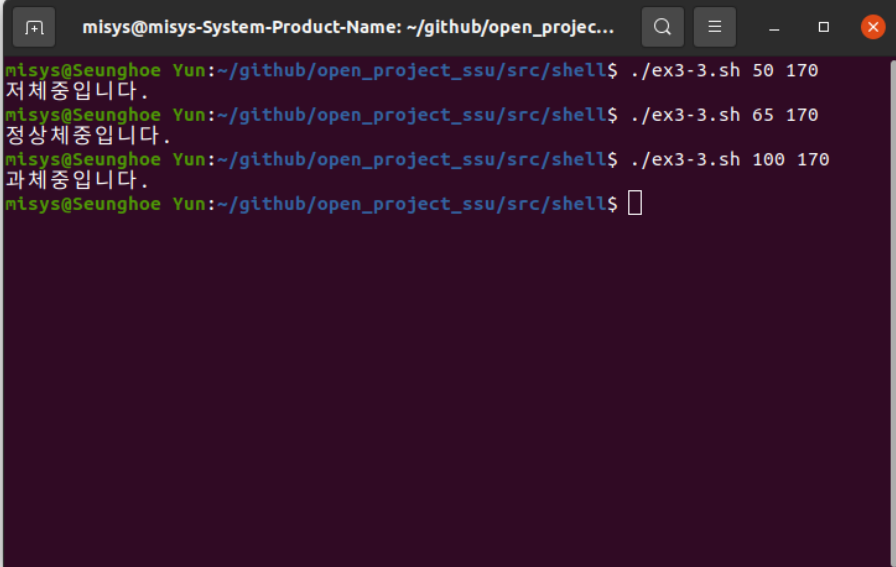
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2 if [ $2 == '+' ] ; then  
3     let add=$1+$3  
4     echo $add  
5 fi  
6 if [ $2 == '-' ] ; then  
7     let div=$1-$3  
8     echo $div  
9 fi  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
ex3-2.sh 1,1 All  
"ex3-2.sh" 9L, 118C
```

Ex3-3

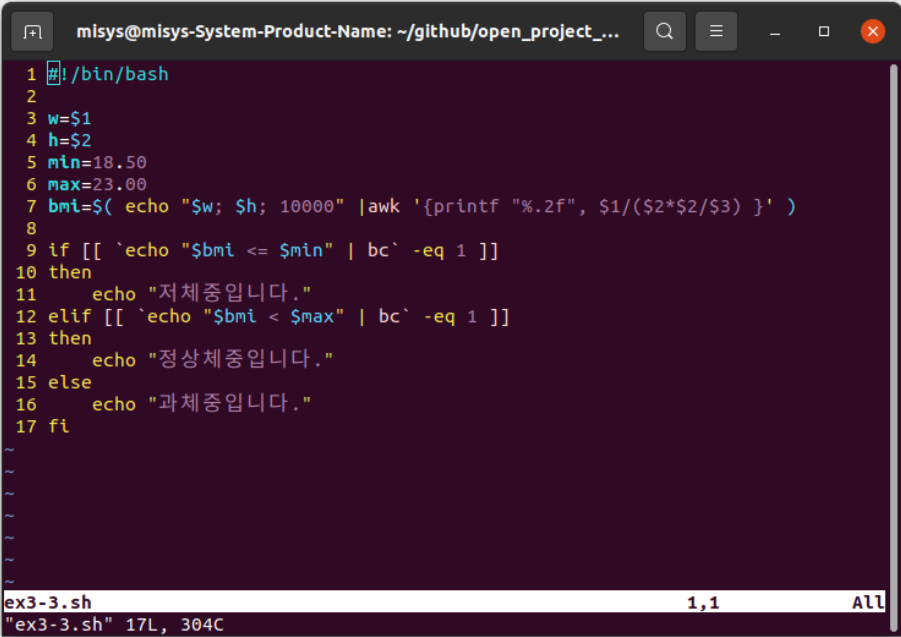
결과 이미지



```
misys@misys-System-Product-Name: ~/github/open_projec...  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-3.sh 50 170  
저체중입니다.  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-3.sh 65 170  
정상체중입니다.  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-3.sh 100 170  
과체중입니다.  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$
```

코드

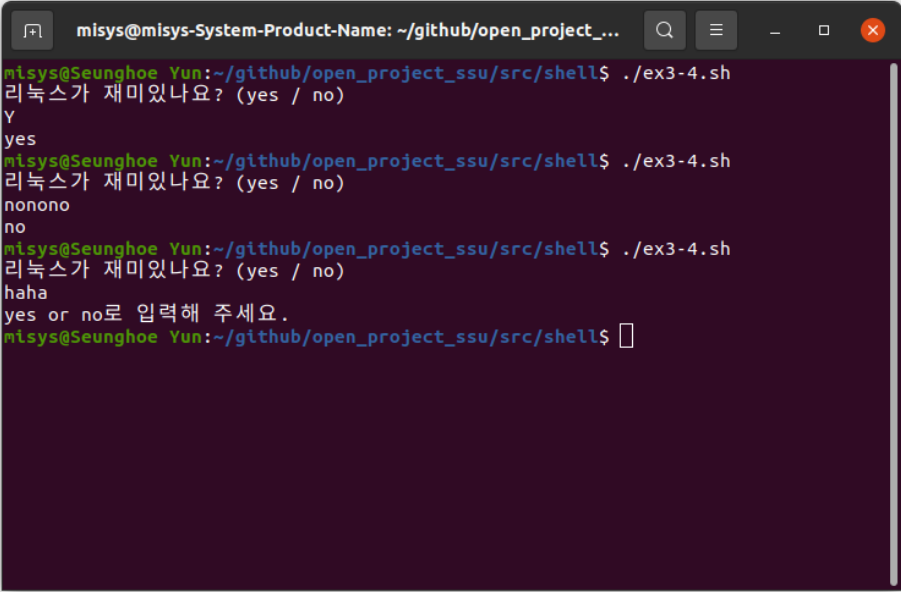
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2  
3 w=$1  
4 h=$2  
5 min=18.50  
6 max=23.00  
7 bmi=$(( echo "$w; $h; 10000" | awk '{printf "%.2f", $1/($2*$2/$3) }' ) )  
8  
9 if [[ `echo "$bmi <= $min" | bc` -eq 1 ]]  
10 then  
11     echo "저체중입니다."  
12 elif [[ `echo "$bmi < $max" | bc` -eq 1 ]]  
13 then  
14     echo "정상체중입니다."  
15 else  
16     echo "과체중입니다."  
17 fi  
~  
~  
~  
~  
~  
ex3-3.sh 1,1 All  
"ex3-3.sh" 17L, 304C
```

Ex3-4

결과 이미지



```
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-4.sh  
리눅스가 재미있나요? (yes / no)  
y  
yes  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-4.sh  
리눅스가 재미있나요? (yes / no)  
nonono  
no  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-4.sh  
리눅스가 재미있나요? (yes / no)  
haha  
yes or no로 입력해 주세요.  
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$
```

코드

2022.10.07~2022.10.28

```

misys@misys-System-Product-Name: ~/github/open_project_...
1 #!/bin/bash
2 echo "리눅스가 재미있나요? (yes / no)"
3
4 read answer
5
6 case $answer in
7     yes | y | Y | YES)
8         echo "yes"
9         ;;
10    [nN]*)
11        echo "no"
12        ;;
13    *)
14        echo "yes or no로 입력해 주세요."
15        exit 1
16 esac
17 exit 0

```

ex3-4.sh 1,1 All

"ex3-4.sh" 17L, 221C

Ex3-5

결과 이미지

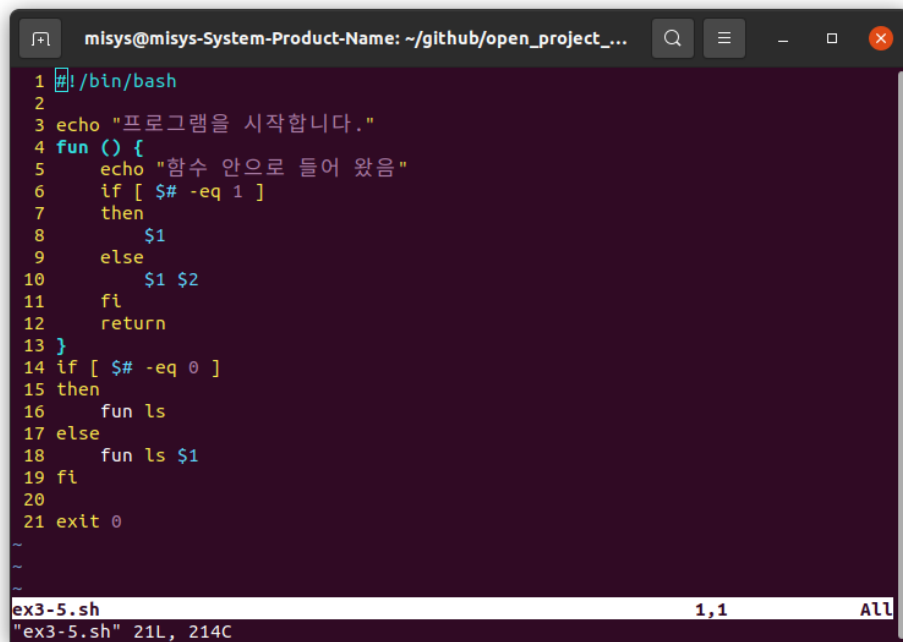
```

misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-5.sh
프로그램을 시작합니다.
함수 안으로 들어 왔음
ex3-0.sh ex3-1.sh ex3-2.sh ex3-3.sh ex3-4.sh ex3-5.sh img
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-5.sh -l
프로그램을 시작합니다.
함수 안으로 들어 왔음
total 28
-rwxrwxr-x 1 misys misys 31 10월 12 19:58 ex3-0.sh
-rwxrwxr-x 1 misys misys 128 10월 12 20:19 ex3-1.sh
-rwxrwxr-x 1 misys misys 118 10월 12 20:30 ex3-2.sh
-rwxrwxr-x 1 misys misys 304 10월 12 23:15 ex3-3.sh
-rwxrwxr-x 1 misys misys 221 10월 13 11:32 ex3-4.sh
-rwxrwxr-x 1 misys misys 143 10월 13 11:38 ex3-5.sh
drwxrwxr-x 2 misys misys 4096 10월 12 23:16 img
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$

```

코드

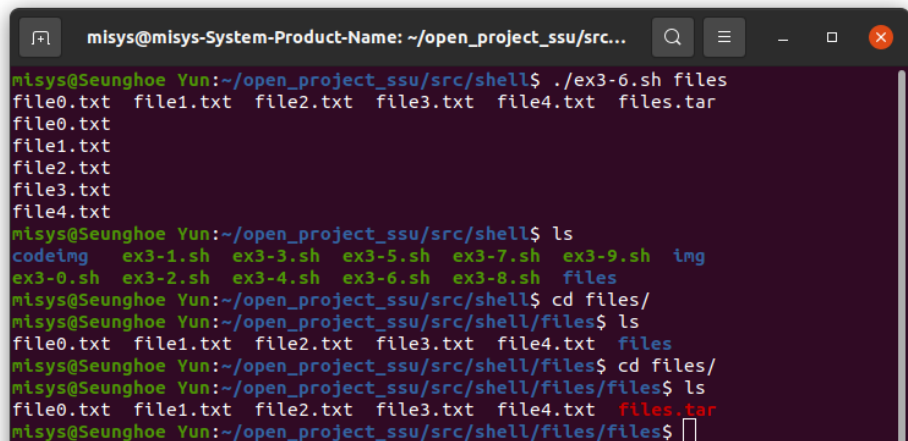
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2  
3 echo "프로그램을 시작합니다."  
4 fun () {  
5     echo "함수 안으로 들어 왔음"  
6     if [ $# -eq 1 ]  
7     then  
8         $1  
9     else  
10        $1 $2  
11    fi  
12    return  
13 }  
14 if [ $# -eq 0 ]  
15 then  
16     fun ls  
17 else  
18     fun ls $1  
19 fi  
20  
21 exit 0  
~  
~  
ex3-5.sh  
"ex3-5.sh" 21L, 214C
```

Ex3-6

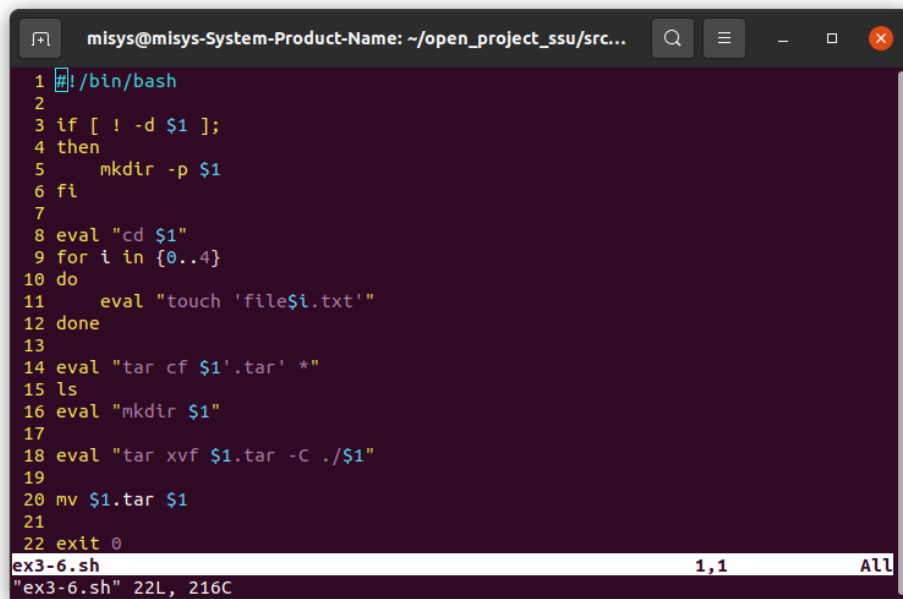
결과 이미지



```
misys@Seunghoe Yun:~/open_project_ssu/src/shell$ ./ex3-6.sh files  
file0.txt file1.txt file2.txt file3.txt file4.txt files.tar  
file0.txt  
file1.txt  
file2.txt  
file3.txt  
file4.txt  
misys@Seunghoe Yun:~/open_project_ssu/src/shell$ ls  
codeimg ex3-1.sh ex3-3.sh ex3-5.sh ex3-7.sh ex3-9.sh img  
ex3-0.sh ex3-2.sh ex3-4.sh ex3-6.sh ex3-8.sh files  
misys@Seunghoe Yun:~/open_project_ssu/src/shell$ cd files/  
misys@Seunghoe Yun:~/open_project_ssu/src/shell/files$ ls  
file0.txt file1.txt file2.txt file3.txt file4.txt files  
misys@Seunghoe Yun:~/open_project_ssu/src/shell/files$ cd files/  
misys@Seunghoe Yun:~/open_project_ssu/src/shell/files/files$ ls  
file0.txt file1.txt file2.txt file3.txt file4.txt files.tar  
misys@Seunghoe Yun:~/open_project_ssu/src/shell/files/files$
```

코드

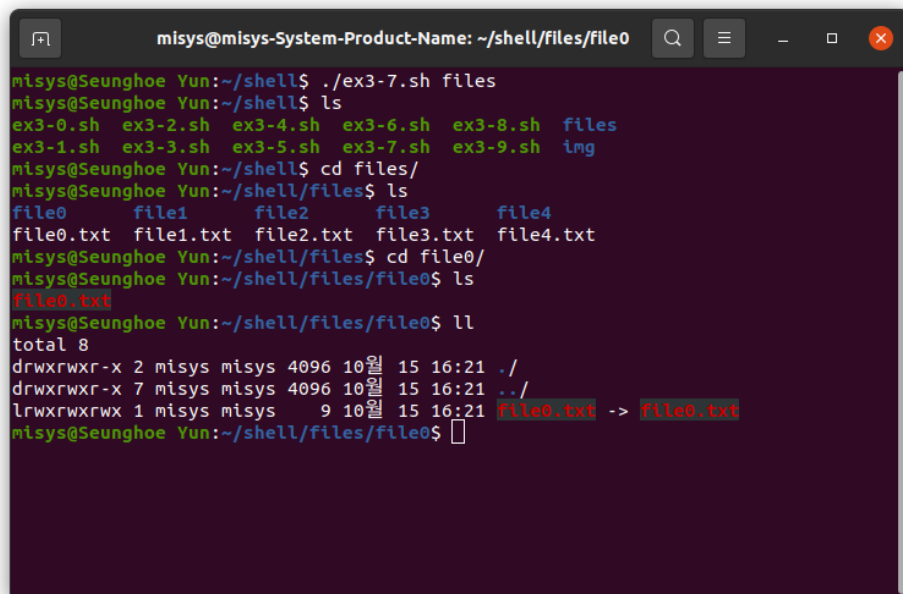
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/open_project_ssu/src...  
1 #!/bin/bash  
2  
3 if [ ! -d $1 ];  
4 then  
5     mkdir -p $1  
6 fi  
7  
8 eval "cd $1"  
9 for i in {0..4}  
10 do  
11     eval "touch 'file$i.txt'"  
12 done  
13  
14 eval "tar cf $1'.tar' *"  
15 ls  
16 eval "mkdir $1"  
17  
18 eval "tar xvf $1.tar -C ./\$1"  
19  
20 mv $1.tar $1  
21  
22 exit 0  
ex3-6.sh 1,1 All  
"ex3-6.sh" 22L, 216C
```

Ex3-7

결과 이미지



```
misys@misys-System-Product-Name: ~/shell/files/file0  
misys@Seunghoe Yun:~/shell$ ./ex3-7.sh files  
misys@Seunghoe Yun:~/shell$ ls  
ex3-0.sh ex3-2.sh ex3-4.sh ex3-6.sh ex3-8.sh files  
ex3-1.sh ex3-3.sh ex3-5.sh ex3-7.sh ex3-9.sh img  
misys@Seunghoe Yun:~/shell$ cd files/  
misys@Seunghoe Yun:~/shell/files$ ls  
file0 file1 file2 file3 file4  
file0.txt file1.txt file2.txt file3.txt file4.txt  
misys@Seunghoe Yun:~/shell/files$ cd file0/  
misys@Seunghoe Yun:~/shell/files/file0$ ls  
file0.txt  
misys@Seunghoe Yun:~/shell/files/file0$ ll  
total 8  
drwxrwxr-x 2 misys misys 4096 10월 15 16:21 ./  
drwxrwxr-x 7 misys misys 4096 10월 15 16:21 ../  
lrwxrwxrwx 1 misys misys 9 10월 15 16:21 file0.txt -> file0.txt  
misys@Seunghoe Yun:~/shell/files/file0$
```

코드

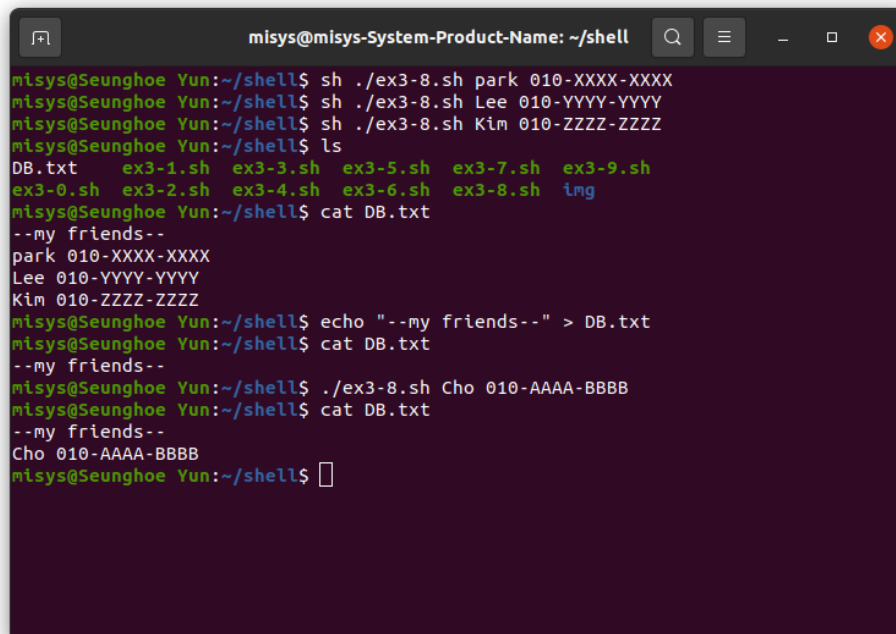
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2  
3 if [ ! -d $1 ]  
4 then  
5     mkdir $1  
6 fi  
7  
8 for i in {0..4}  
9 do  
10     mkdir -m 775 $1/file$i  
11     touch $1/file$i.txt  
12     ln -s file$i.txt $1/file$i/file$i.txt  
13 done  
14  
~  
~  
~  
~  
~  
~  
~  
ex3-7.sh  
"ex3-7.sh" 14L, 158C
```

Ex3-8

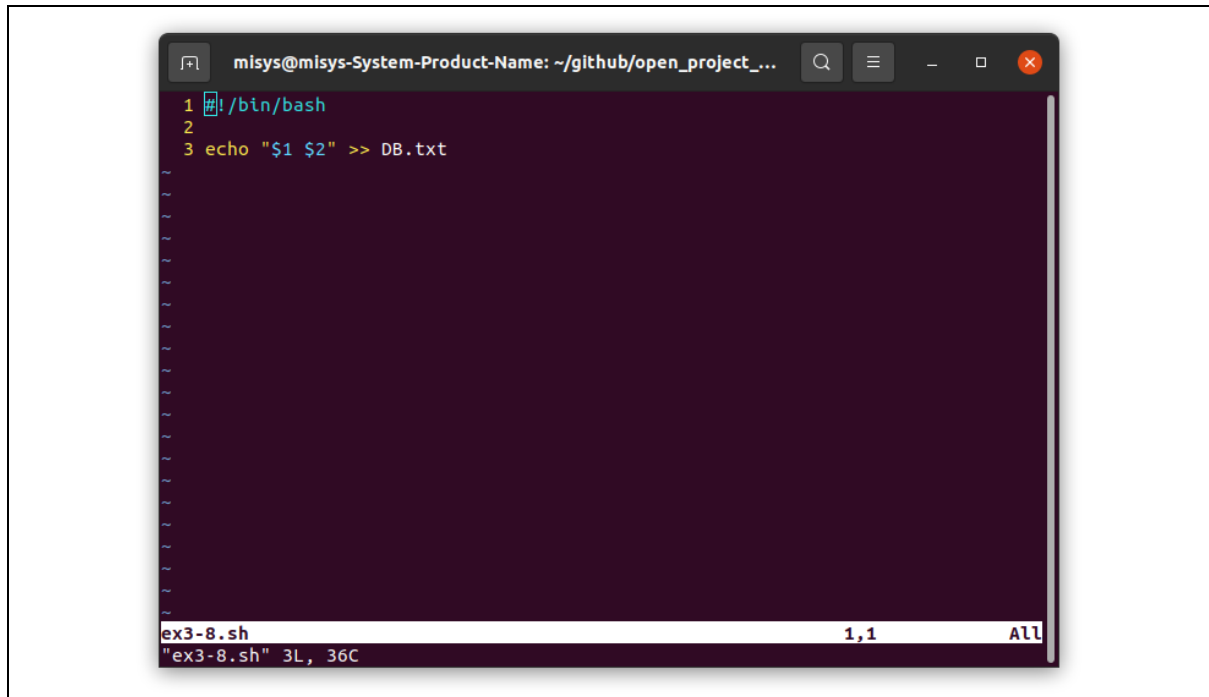
결과 이미지



```
misys@misys-System-Product-Name: ~/shell  
misys@Seunghoe Yun:~/shell$ sh ./ex3-8.sh park 010-XXXX-XXXX  
misys@Seunghoe Yun:~/shell$ sh ./ex3-8.sh Lee 010-YYYY-YYYY  
misys@Seunghoe Yun:~/shell$ sh ./ex3-8.sh Kim 010-ZZZZ-ZZZZ  
misys@Seunghoe Yun:~/shell$ ls  
DB.txt  ex3-1.sh  ex3-3.sh  ex3-5.sh  ex3-7.sh  ex3-9.sh  
ex3-0.sh  ex3-2.sh  ex3-4.sh  ex3-6.sh  ex3-8.sh  img  
misys@Seunghoe Yun:~/shell$ cat DB.txt  
--my friends--  
park 010-XXXX-XXXX  
Lee 010-YYYY-YYYY  
Kim 010-ZZZZ-ZZZZ  
misys@Seunghoe Yun:~/shell$ echo "--my friends--" > DB.txt  
misys@Seunghoe Yun:~/shell$ cat DB.txt  
--my friends--  
misys@Seunghoe Yun:~/shell$ ./ex3-8.sh Cho 010-AAAA-BBBB  
misys@Seunghoe Yun:~/shell$ cat DB.txt  
--my friends--  
Cho 010-AAAA-BBBB  
misys@Seunghoe Yun:~/shell$
```

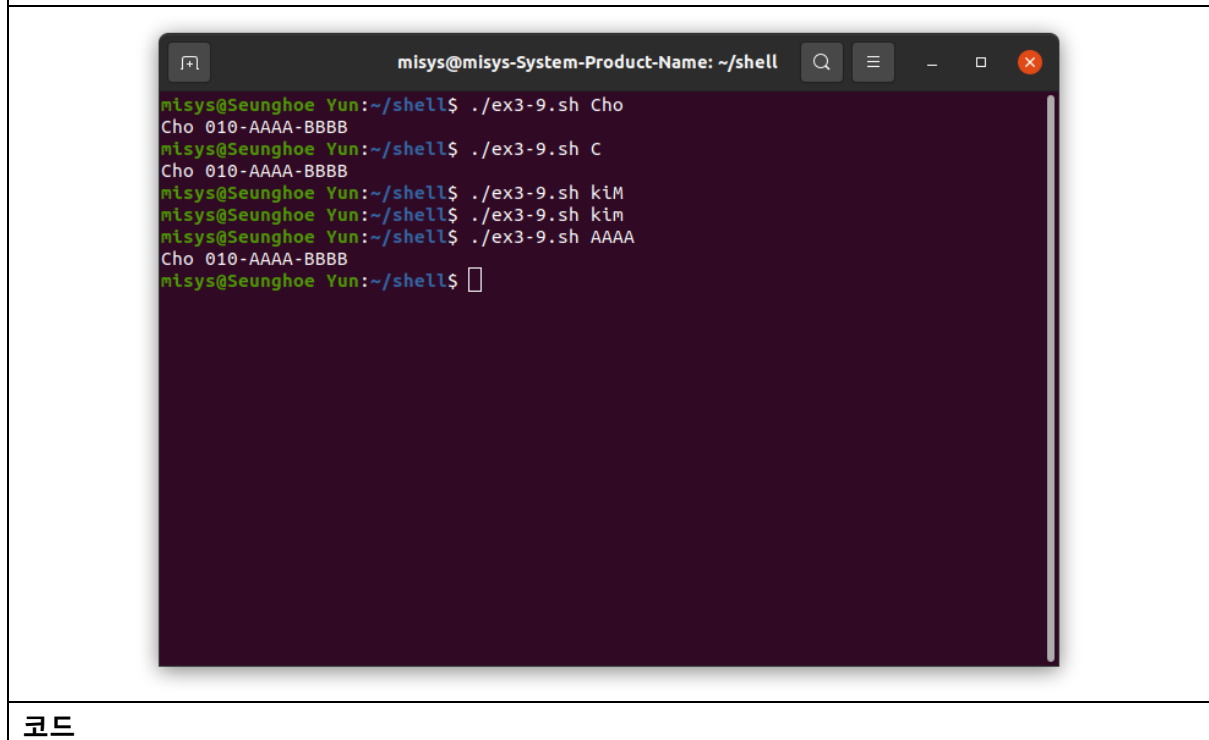
코드

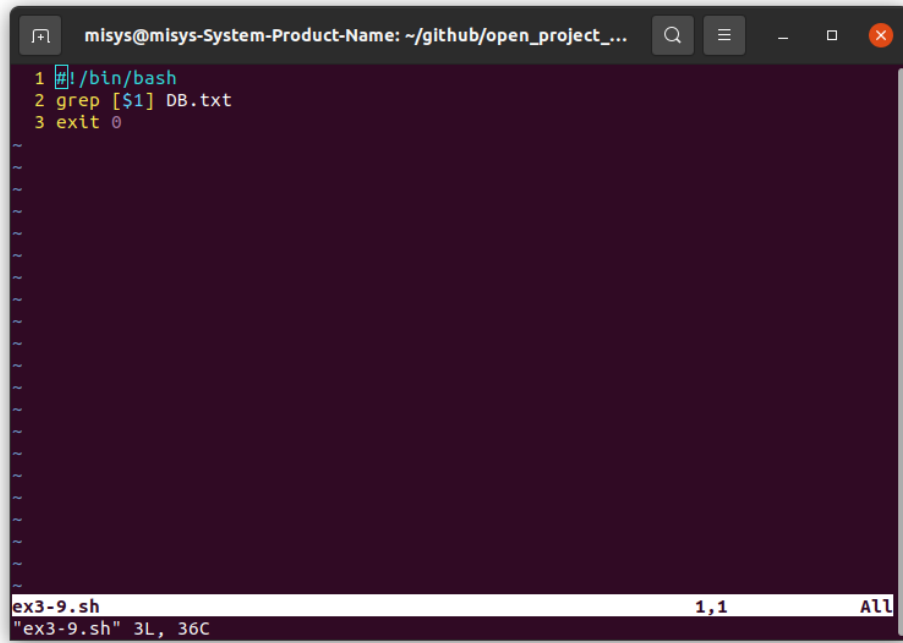
2022.10.07~2022.10.28



Ex3-9

결과 이미지



2022.10.07~2022.10.28

The image shows a terminal window with a dark purple background. The window title is "misys@misys-System-Product-Name: ~/github/open_project_...". The terminal content shows a script being executed with three lines: 1. `#!/bin/bash`, 2. `grep [$1] DB.txt`, and 3. `exit 0`. The script is named `ex3-9.sh`. The bottom status bar shows the filename `ex3-9.sh`, the cursor position `1,1`, and the text `All`. The bottom left corner of the terminal shows the command `"ex3-9.sh" 3L, 36C`.

```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2 grep [$1] DB.txt  
3 exit 0  
  
ex3-9.sh 1,1 All  
"ex3-9.sh" 3L, 36C
```