

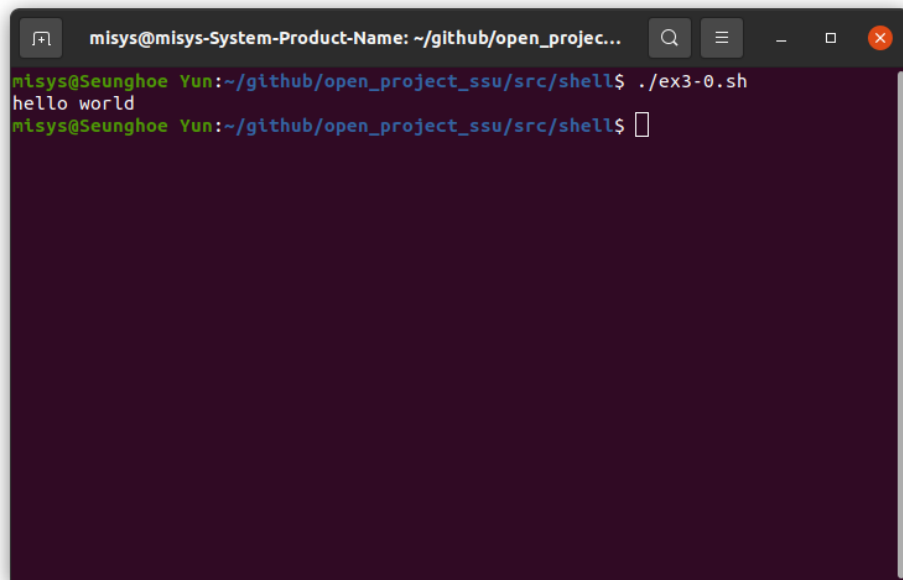
2022.10.07~2022.10.28**1. 주제 (10점)**

Shell programming

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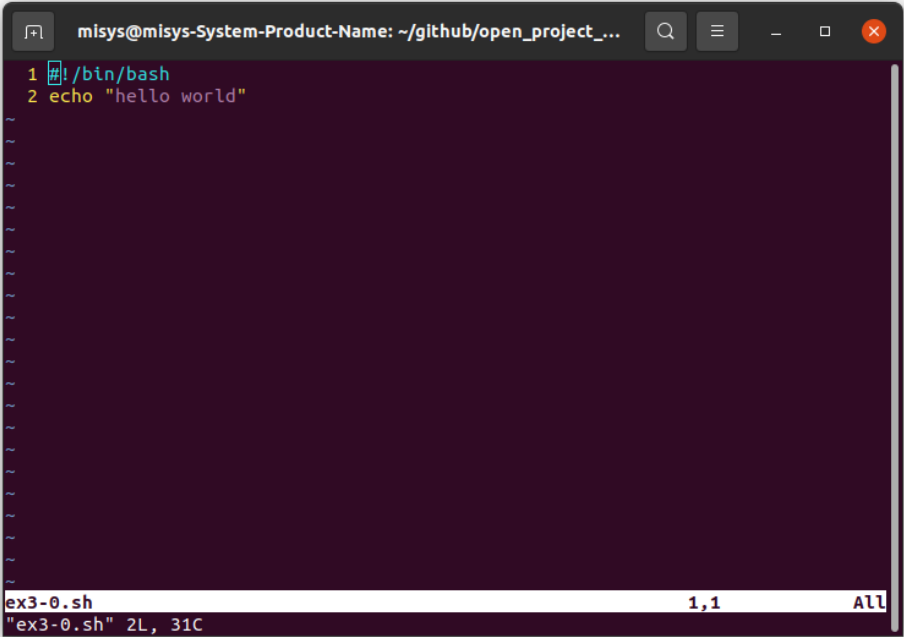
Ex3-0

결과 이미지A terminal window with a dark purple background. The title bar shows 'misys@misys-System-Product-Name: ~/github/open_projec...'. The terminal content shows a prompt 'misys@Seunghoe Yun:~/github/open_project_ssu/src/shell\$' followed by the command './ex3-0.sh' and its output 'hello world'. A second prompt line is visible below the output.

```
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$
```

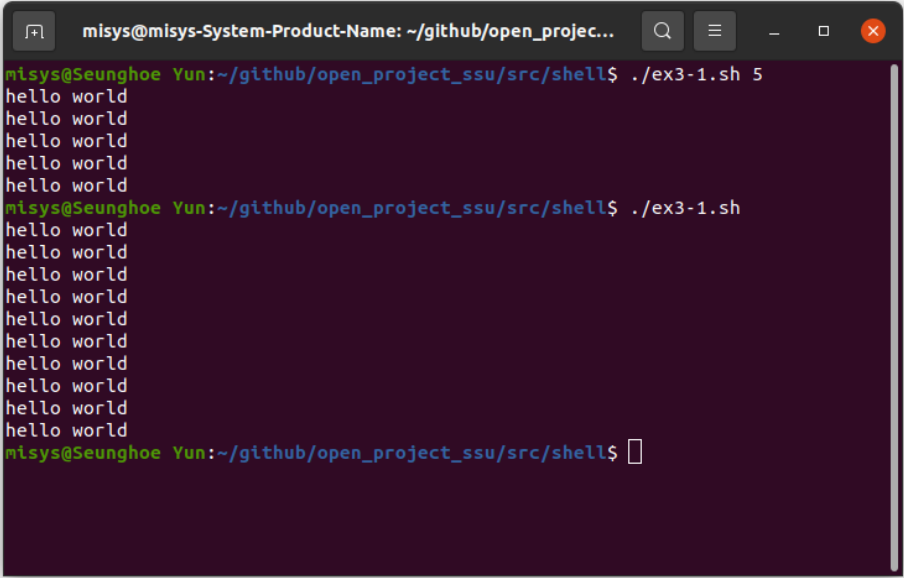
코드

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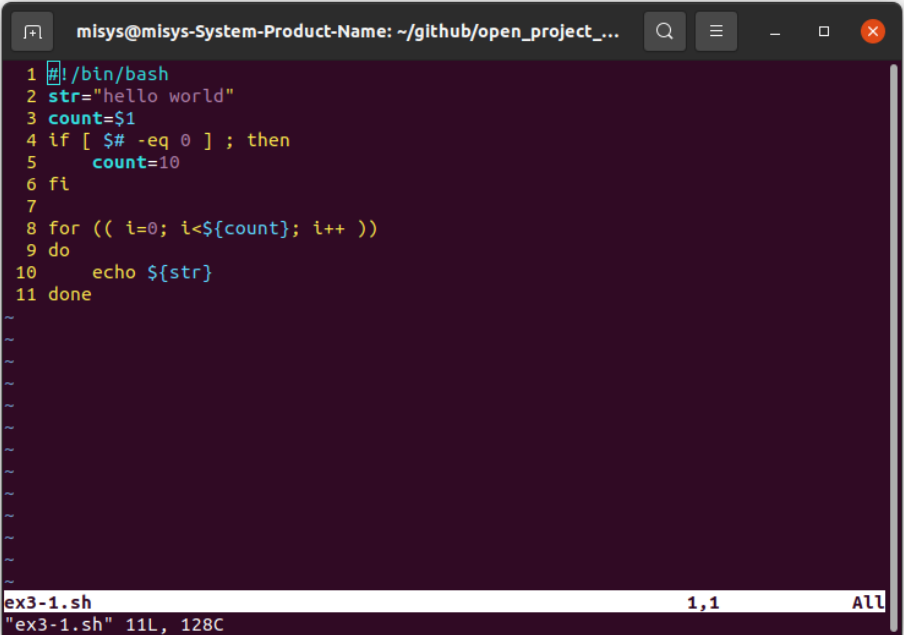


Ex3-1

결과 이미지



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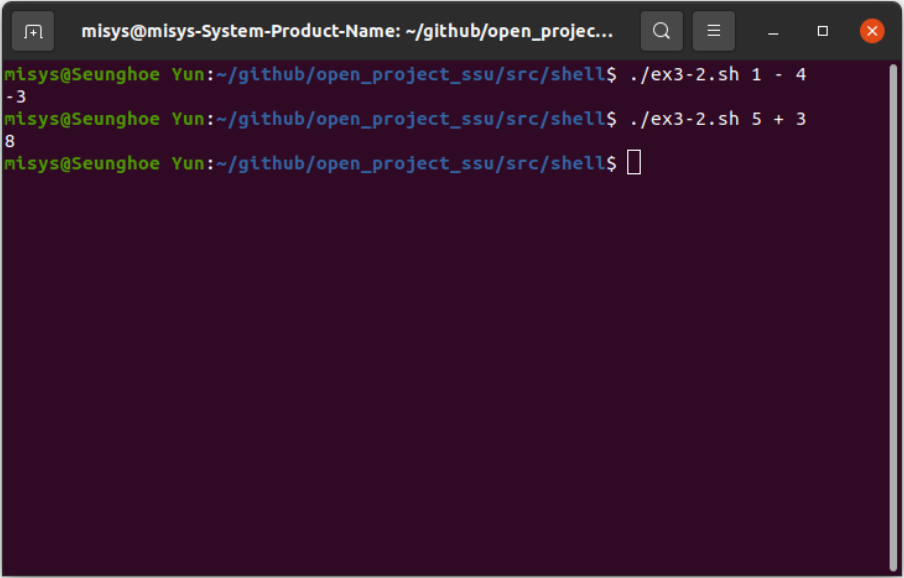


A terminal window titled "misys@misys-System-Product-Name: ~/github/open_project_..." displays a shell script being executed. The script defines a variable 'str' as 'hello world', sets 'count' to 1, and enters a loop that prints 'hello world' 10 times. The terminal output shows the script being executed and the output of the loop. The status bar at the bottom indicates the file 'ex3-1.sh' is open at line 1, column 1.

```
misys@misys-System-Product-Name: ~/github/open_project_...
1 #!/bin/bash
2 str="hello world"
3 count=1
4 if [ $# -eq 0 ] ; then
5     count=10
6 fi
7
8 for (( i=0; i<${count}; i++ ))
9 do
10     echo ${str}
11 done
~
~
~
~
~
~
~
~
~
~
ex3-1.sh 1,1 All
"ex3-1.sh" 11L, 128C
```

Ex3-2

결과 이미지

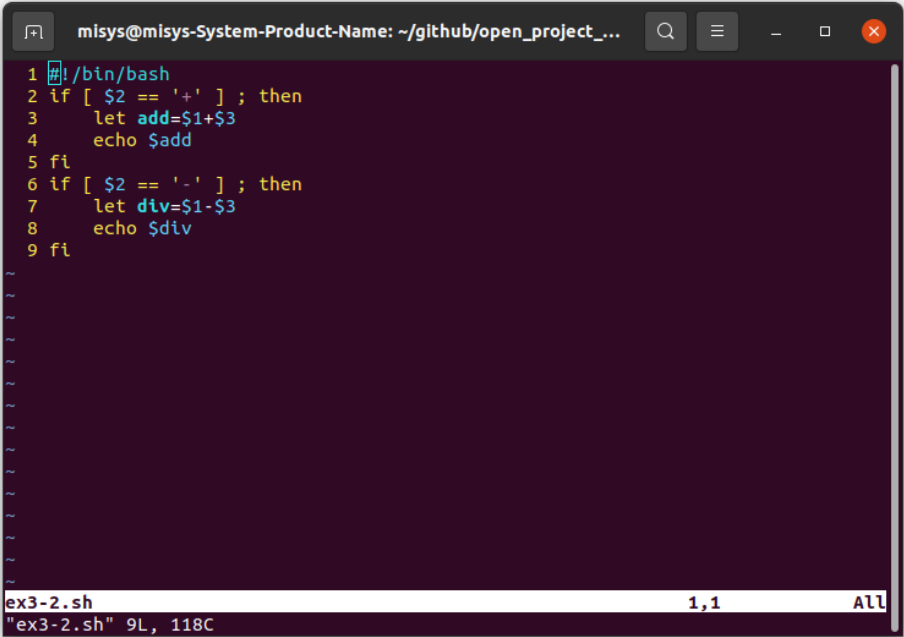


A terminal window titled "misys@misys-System-Product-Name: ~/github/open_projec..." shows the execution of a script named 'ex3-2.sh' with different arguments. The first command is './ex3-2.sh 1 - 4', which outputs '-3'. The second command is './ex3-2.sh 5 + 3', which outputs '8'. The prompt is 'misys@Seunghoe Yun:~/github/open_project_ssu/src/shell\$'.

```
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-2.sh 1 - 4
-3
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$ ./ex3-2.sh 5 + 3
8
misys@Seunghoe Yun:~/github/open_project_ssu/src/shell$
```

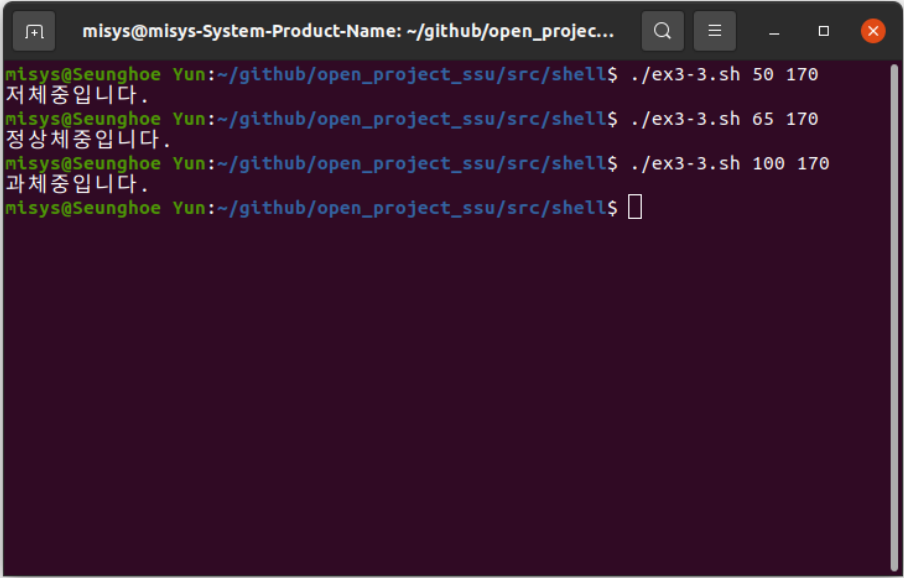
코드

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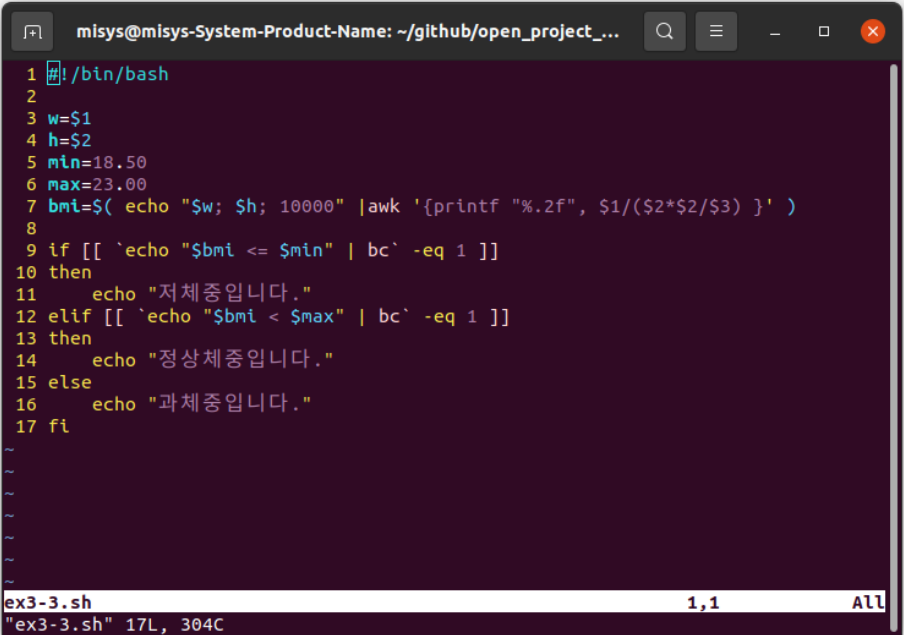
Ex3-3

결과 이미지



코드

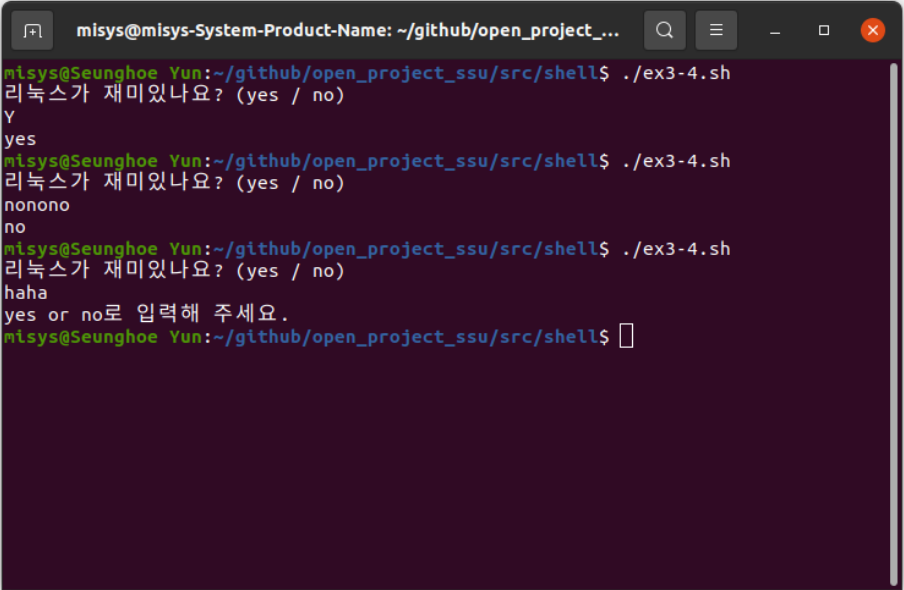
2022.10.07~2022.10.28



```
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

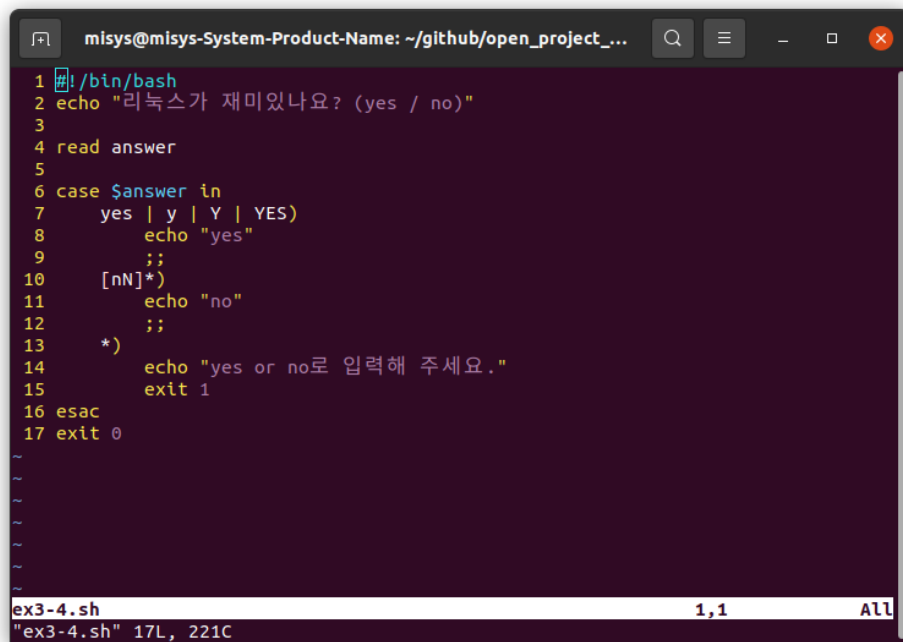
결과 이미지



```
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

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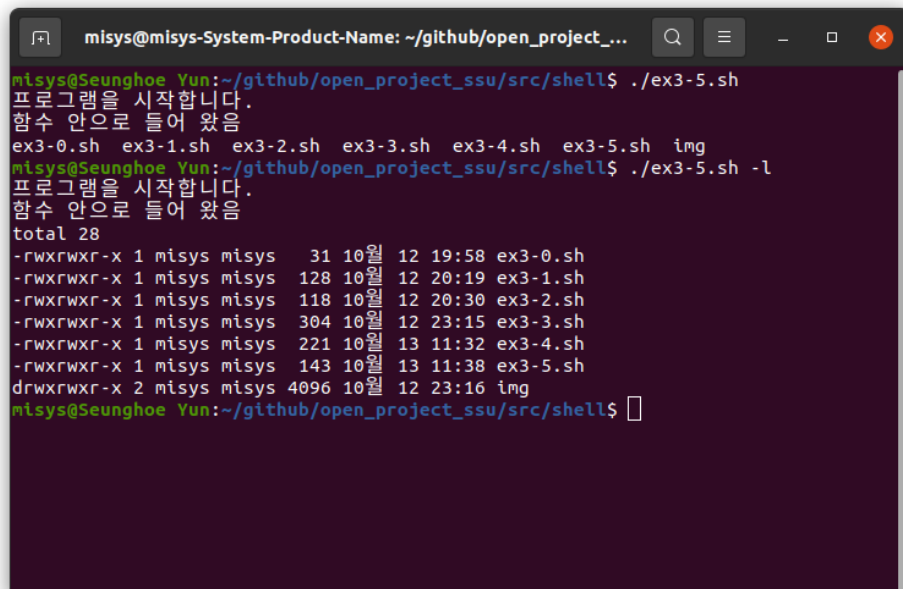


```
misys@misys-System-Product-Name: ~/github/open_project_...
1 #!/bin/bash
2 echo "리눅스가 재미있나요? (yes / no)"
3
4 read answer
5
6 case $answer in
7     yes | y | Y | YES)
8         echo "yes"
9         ;;
10    [nN]*)
11        echo "no"
12        ;;
13    *)
14        echo "yes or no로 입력해 주세요."
15  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

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

Ex3-5

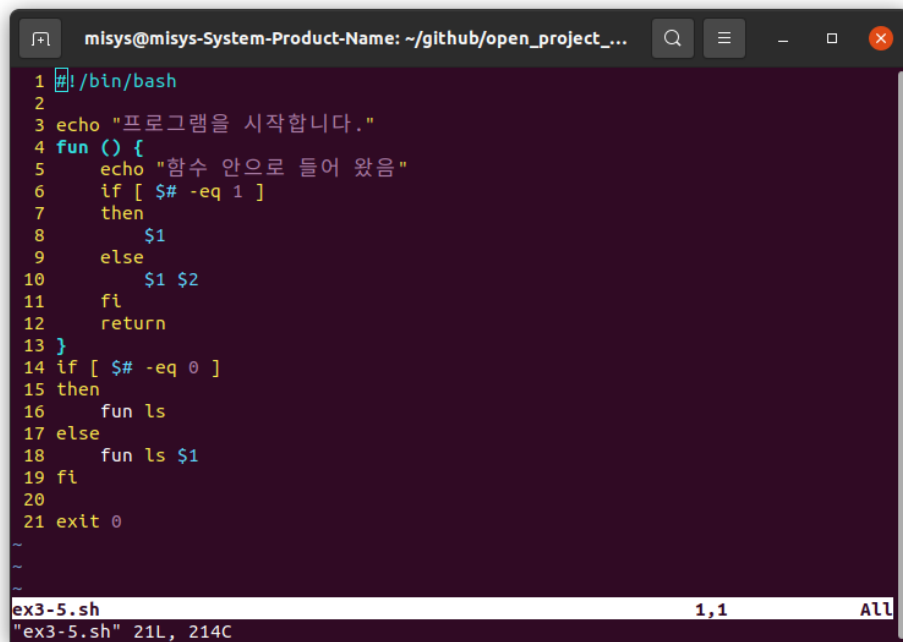
결과 이미지



```
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

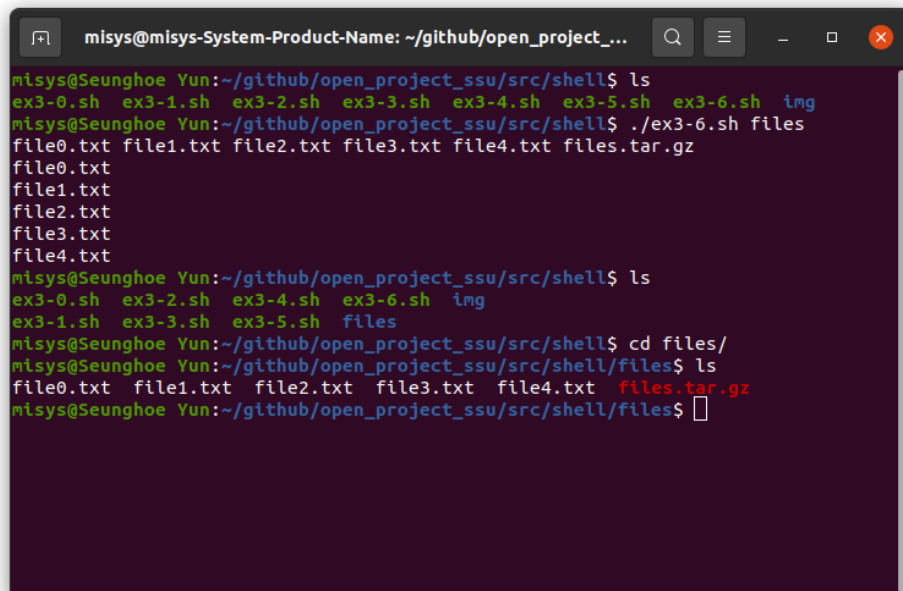
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```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2  
3 echo "프로그램을 시작합니다."  
4 fun () {  
5     echo "함수 안으로 들어 왔음"  
6     if [ $# -eq 1 ]  
7     then  
8         $1  
9     else  
10        $1 $2  
11    fi  
12 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

Ex3-6

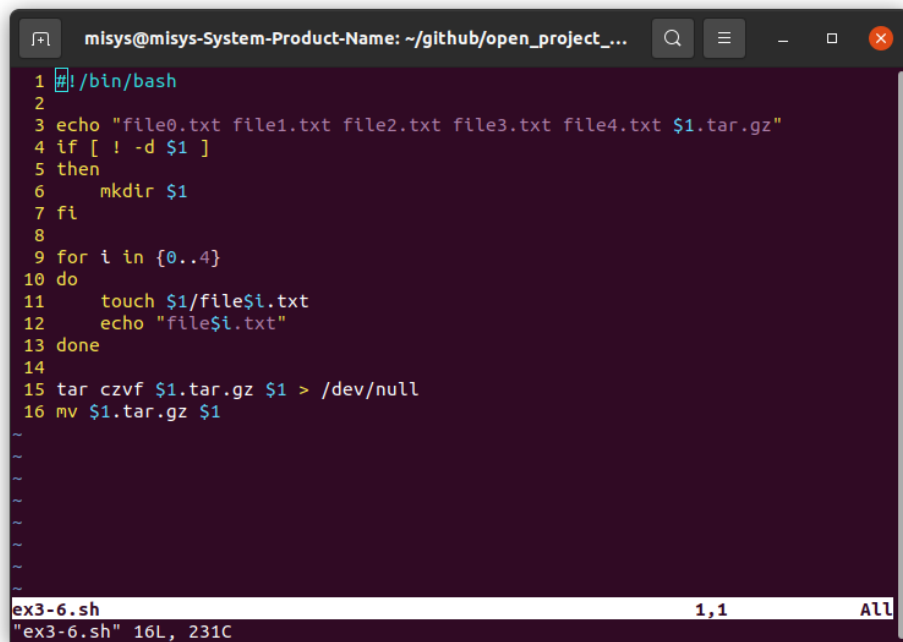
결과 이미지



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

코드

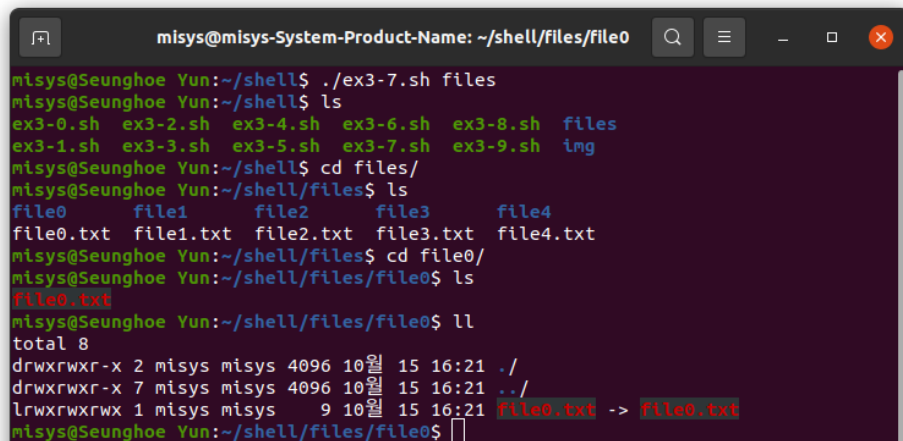
2022.10.07~2022.10.28



```
misys@misys-System-Product-Name: ~/github/open_project_...  
1 #!/bin/bash  
2  
3 echo "file0.txt file1.txt file2.txt file3.txt file4.txt $1.tar.gz"  
4 if [ ! -d $1 ]  
5 then  
6     mkdir $1  
7 fi  
8  
9 for i in {0..4}  
10 do  
11     touch $1/file$i.txt  
12     echo "file$i.txt"  
13 done  
14  
15 tar czvf $1.tar.gz $1 > /dev/null  
16 mv $1.tar.gz $1  
~  
~  
~  
~  
~  
~  
ex3-6.sh 1,1 All  
"ex3-6.sh" 16L, 231C
```

Ex3-7

결과 이미지



```
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

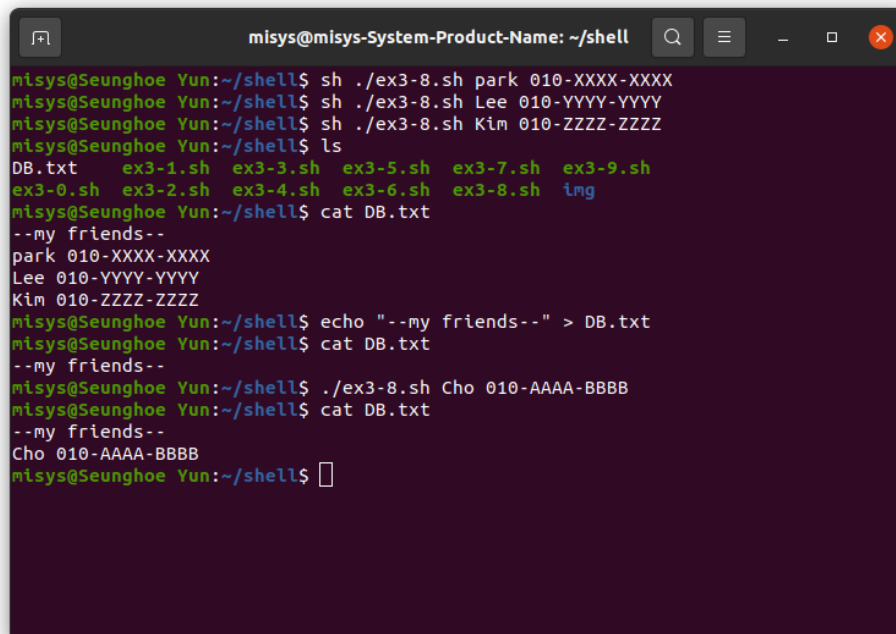
2022.10.07~2022.10.28



```
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

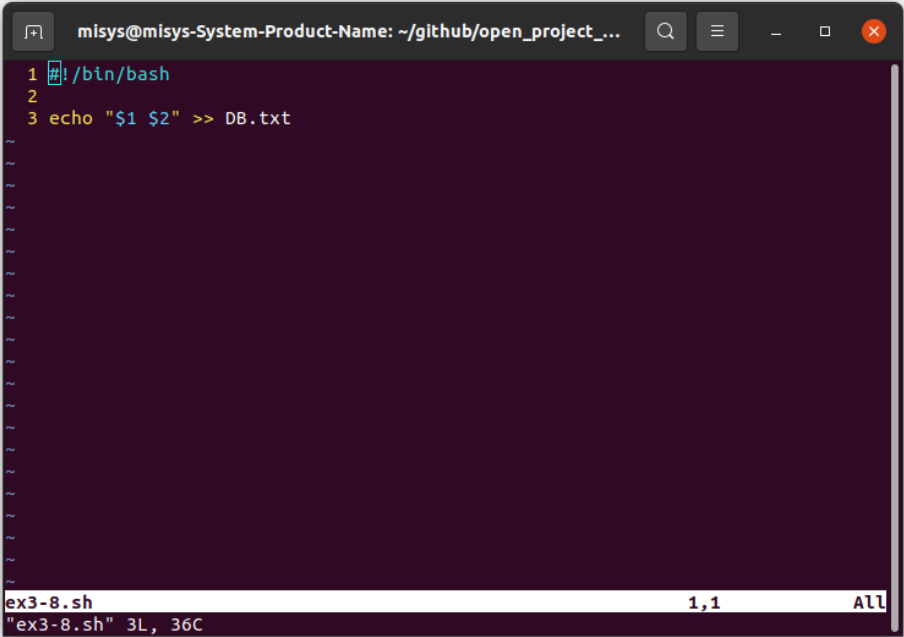
결과 이미지



```
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$
```

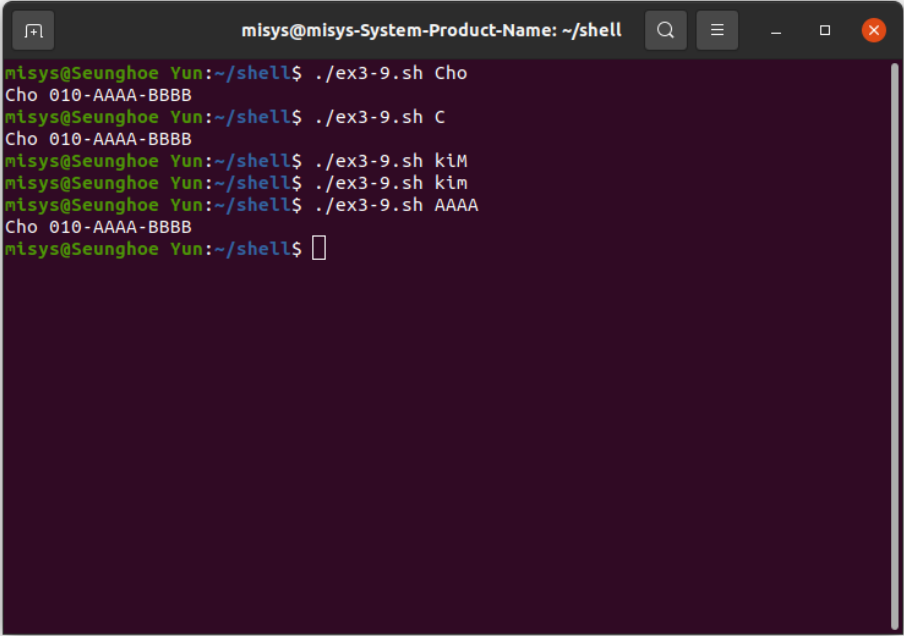
코드

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Ex3-9

결과 이미지



코드

