

시스템 S/W 실습10



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1. 다음에 주어진 리눅스 명령을 입력하고, 실행하시오.

(a) 별명 (Aliases) \$alias ls='ls -aF'

\$ls **

zezeon@ubuntuZ:~/Programming/SIC\$./file.x

normal//
zezeon@ubuntuZ:~/Programming/SIC\$ cat normal.txt

normal//

(b) 산술계산 : expr \$x = 1 \$ x='expr \$x + 1'

2

(c) 제어구조

i. case .. in .. esac

Listing 1: menu.sh

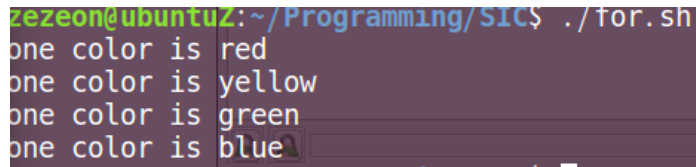
```
#!/bin/sh
echo menu test program
stop=0
while test $stop -eq 0
do
    echo -n 'your choice?'
    read reply
    echo
    case $reply in
        "1")
            date
            ;;
        "2")
            stop=1
            ;;
        *)
            echo illegal choice
            ;;
    esac
done
```

```
zezeon@ubuntuZ:~/Programming/SIC$ ./menu.sh
menu test program
your choice?1
2016. 11. 30. (수) 13:34:54 KST
your choice?2
```

ii. for .. do .. done

Listing 2: for.sh

```
#!/bin/sh
for color in red yellow green blue
do
    echo one color is $color
done
```

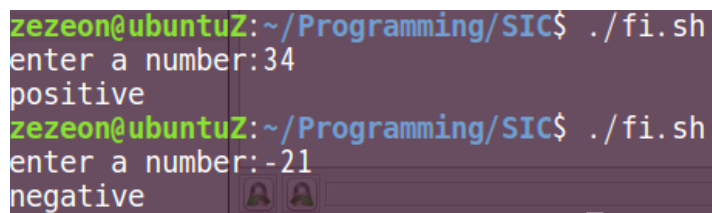


```
zezeon@ubuntuZ:~/Programming/SIC$ ./for.sh
one color is red
one color is yellow
one color is green
one color is blue
```

iii. if .. then .. fi

Listing 3: fi.sh

```
#!/bin/sh
echo -n 'enter a number:'
read number
if [ $number -lt 0 ]
then
    echo negative
elif [ $number -eq 0 ]
then
    echo zero
else
    echo positive
fi
```



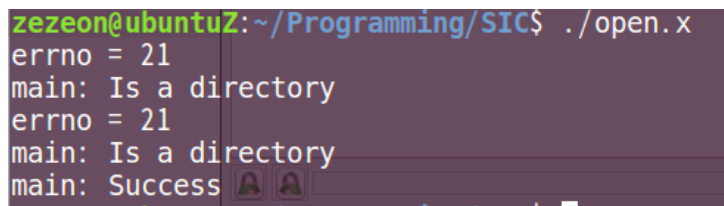
```
zezeon@ubuntuZ:~/Programming/SIC$ ./fi.sh
enter a number:34
positive
zezeon@ubuntuZ:~/Programming/SIC$ ./fi.sh
enter a number:-21
negative
```

2. 다음에 주어진 Linux 시스템 호출(error 처리)과 관련된 프로그램을 입력하고, 실행하십시오.

Listing 4: open.c

```
#include <stdio.h>
#include <sys/file.h>
#include <errno.h>
int main()
{
    int fd;
    fd = open("nonexist.txt", O_RDONLY);
    if(fd == -1) {
```

```
    printf("errno = %d\n", errno);
    perror("main");
}
fd = open("/", O_WRONLY);
if(fd == -1) {
    printf("errno = %d\n", errno);
    perror("main");
}
errno = 0;
fd = open("nonexist.txt", O_RDONLY | O_CREAT, 0644);
printf("errno = %d\n", errno);
perror("main");
perror("main");
}
```



```
zezeon@ubuntuZ:~/Programming/SIC$ ./open.x
errno = 21
main: Is a directory
errno = 21
main: Is a directory
main: Success
```

소감 스크립트가 매우 유용하다는 것을 느꼈다.