

시스템 S/W 실습10



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1. 다음에 주어진 리눅스 명령을 입력하고, 실행하시오.

(a) 별명 (Aliases) \$alias ls='ls -aF'

\$ls **

```
zezeon@ubuntu: ~/Programming/SIC$ ls .
1.o          20.s?o      ee.s         o.s         sic.h
1.png        3.o         ee2.s        open.c       sic.o
1.sy         3.png       ex2.s        open.x*      sic.x*
1.txt        3.s         example.s    pass2.cpp    ss.s
1.x          3.x         fi.sh*       pre.cc       sum.c
11-16.pdf    4.s         interpreter.cc pre.cpp       sum.dump
11-2.pdf     5.s         interpreter.h pre.h         sum.o
11-23.pdf    Session.vim interpreter.o pre.o         sum.s
11-9.pdf     [.aux       link.cc       pre.x*       test4.c
16.session={\$.code.c link.h        report.aux    test4old.c
16.s?o       code.s      link.o        report.log   test5.c
17.s         compile.cpp linker.cpp     report.tex   test5.png
19.s         compile.x*  linker.x*     run.cpp      test6.c
2.o          compiler.cc logo.jpg      run.x*       test6.png
2.png        compiler.h  main.c        sample.sh*   tt.png
2.s          compiler.o  main.o        script.sh*   실습5.pdf
2.txt        e.s         menu.sh*      sic.cc       실습6선택과제.pdf
20.s         e2.s       nonexistent.txt sic.cpp
```

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

2

(c) 제어구조

i. case .. in .. esac

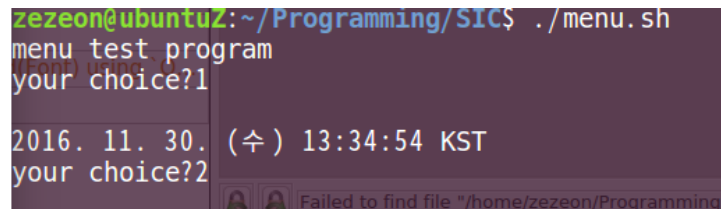
Listing 1: menu.sh

```
#!/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
    esac
done
```

```

        ;;
    *0)
        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
Failed to find file "/home/zezeon/Programming/

```

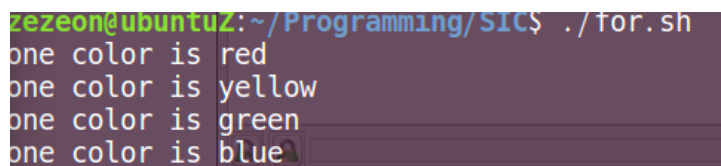
ii. for .. do .. done

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");
    }
    fd = open("nonexist.txt", O_RDONLY | O_CREAT, 0644);
    printf("errno = %d\n", errno);
    perror("main");
    errno = 0;
    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.