



# 시스템 S/W 실습9



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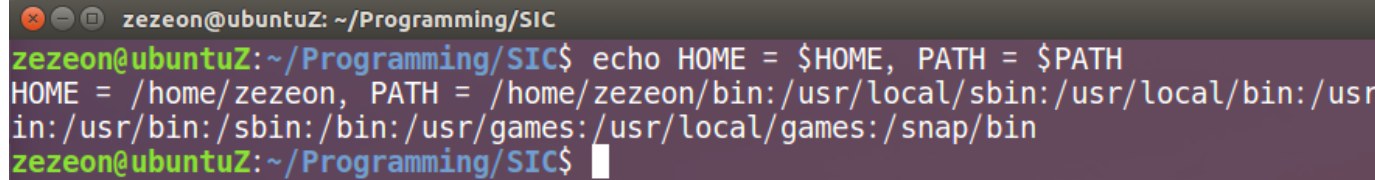
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1. 다음에 주어진 리눅스 명령을 입력하고, 실행하시오.

(a) 환경변수: 문자열변수 : \$HOME, \$PATH, \$MAIL, \$USER, \$TERM, \$SHELL

```
$echo HOME=$HOME, PATH=$PATH
```



```
zezeon@ubuntuZ: ~/Programming/SIC
zezeon@ubuntuZ:~/Programming/SIC$ echo HOME = $HOME, PATH = $PATH
HOME = /home/zezeon, PATH = /home/zezeon/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
zezeon@ubuntuZ:~/Programming/SIC$
```

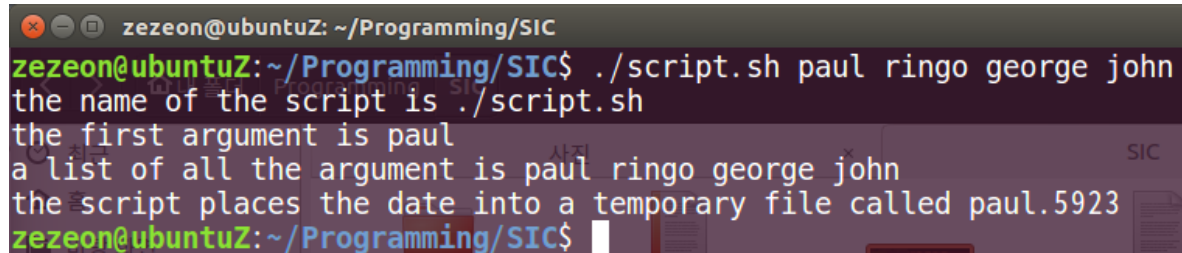
(b) 내장변수: \$\$ (셸의 프로세스 id), \$0 (셸 스크립트 이름), \$1...\$9 (명령어 줄 인수 참조), \*(모든 명령어 줄 인수의 목록), @\$ (\*의 변형)

(c) 셸 스크립트 파일 작성

Listing 1: cat - >script.sh

```
#!/bin/sh
#This is a sample Born shell script .
echo "the name of the script is $0"
echo "the first argument is $1"
echo "a list of all the argument is *"
echo "the script places the date into a temporary file called $1.$$"
date > $1.$$ #redirect the output of date
```

```
$chmod +x script.sh
```



```
zezeon@ubuntuZ: ~/Programming/SIC
zezeon@ubuntuZ:~/Programming/SIC$ ./script.sh paul ringo george john
the name of the script is ./script.sh
the first argument is paul
a list of all the argument is paul ringo george john
the script places the date into a temporary file called paul.5923
zezeon@ubuntuZ:~/Programming/SIC$
```

(d) .login file 보기

Listing 2: \$cat ~/.bashrc — more

```
# ~/.bashrc: executed by bash(1) for non-login shells.
# see /usr/share/doc/bash/examples/startup-files (in the package bash-doc)
# for examples

# If not running interactively , don't do anything
case $- in
    *i*) ;;
    *) return;;
```

```
esac
```

```
# don't put duplicate lines or lines starting with space in the history .
```

```
# See bash(1) for more options
```

```
HISTCONTROL=ignoreboth
```

```
# append to the history file , don't overwrite it
```

```
shopt -s histappend
```

```
# for setting history length see HISTSIZE and HISTFILESIZE in bash(1)
```

```
HISTSIZE=1000
```

```
HISTFILESIZE=2000
```

```
# check the window size after each command and, if necessary,
```

```
# update the values of LINES and COLUMNS.
```

```
shopt -s checkwinsize
```

```
# If set , the pattern "**" used in a pathname expansion context will
```

```
# match all files and zero or more directories and subdirectories .
```

```
#shopt -s globstar
```

```
# make less more friendly for non-text input files , see lesspipe (1)
```

```
[ -x /usr/bin/ lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"
```

```
# set variable identifying the chroot you work in (used in the prompt below)
```

```
if [ -z "${debian_chroot:-}" ] && [ -r /etc/debian_chroot ]; then
```

```
    debian_chroot=$(cat /etc/debian_chroot)
```

```
fi
```

```
# set a fancy prompt (non-color, unless we know we "want" color)
```

```
case "$TERM" in
```

```
    xterm-color|*-256color) color_prompt=yes;;
```

```
esac
```

```
# uncomment for a colored prompt, if the terminal has the capability ; turned
```

```
# off by default to not distract the user: the focus in a terminal window
```

```
# should be on the output of commands, not on the prompt
```

```
#force_color_prompt=yes
```

```
if [ -n "$force_color_prompt" ]; then
```

```

if [ -x /usr/bin/tput ] && tput setaf 1 >&/dev/null; then
# We have color support; assume it's compliant with Ecma-48
# (ISO/IEC-6429). (Lack of such support is extremely rare, and such
# a case would tend to support setf rather than setaf.)
color_prompt=yes
else
color_prompt=
fi
fi

if [ "$color_prompt" = yes ]; then
PS1='${debian_chroot:+($debian_chroot)}\[\033[01;32m\]\u@\h\[\033[00m
\]:\[\033[01;34m\]\w\[\033[00m\]\$ '
else
PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '
fi
unset color_prompt force_color_prompt

# If this is an xterm set the title to user@host:dir
case "$TERM" in
xterm*|rxvt*)
PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"
;;
*)
;;
esac

# enable color support of ls and also add handy aliases
if [ -x /usr/bin/dircolors ]; then
test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"
alias ls='ls --color=auto'
# alias dir='dir --color=auto'
# alias vdir='vdir --color=auto'

alias grep='grep --color=auto'
alias fgrep='fgrep --color=auto'
alias egrep='egrep --color=auto'
fi

# colored GCC warnings and errors

```

```

#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

# some more ls aliases
alias ll='ls -aF'
alias la='ls -A'
alias l='ls -CF'

# Add an "alert" alias for long running commands. Use like so:
# sleep 10; alert
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)"
"$ (history | tail -n1|sed -e \' s/^s*[0-9]\+\s*//; s/[;&|]\s* alert$ //'") "'

# Alias definitions .
# You may want to put all your additions into a separate file like
# ~/. bash_aliases , instead of adding them here directly .
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/. bash_aliases ]; then
    . ~/. bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

CDPATH=:/home/zezeon/Programming:/media/zezeon/ESD-ISO/dongguk
/usr/local/bin/ asciart .x
dharma

```

(e) 터미널 특성 변경 : stty

```
$stty erase '^H'
```

이미 터미널에 Ctrl-H가 셋팅되어 있었다.

(f) 수행중인 프로세스 보기 : ps

Listing 3: 출력결과

PID	TTY	TIME	CMD
2203	pts/18	00:00:00	bash
7025	pts/18	00:00:00	ps

- (g) 지역변수 보기 : set  
env로 실행시 환경변수를 볼 수 있었다.
- (h) 지역변수 설정 : set 변수명 = 변수값

```
zezeon@ubuntuZ: ~/비디오
zezeon@ubuntuZ:~/비디오$ echo $name
zezeon@ubuntuZ:~/비디오$ name=kim
zezeon@ubuntuZ:~/비디오$ echo $name
kim
zezeon@ubuntuZ:~/비디오$
```

2. 다음과 같은 기능을 수행하는 script 파일 sample.sh을 생성하고 실행하시오.

- (a) date 명령을 사용해서 현재 시간을 display 한다.
- (b) who 명령을 사용해서 login 되어 있는 사용자 수를 display 한다.
- (c) du -a 명령을 사용해서 disk file 크기를 display한다.

Listing 4: sample.sh

```
date
who
du -a
```

Listing 5: 출력결과

```
2016. 11. 23. ( 수 ) 13:48:44 KST
zezeon   tty7          2016-11-23 12:49 (:0)
zezeon   pts/18          2016-11-23 12:49 (ubuntuZ)
3828     ./ sic.mkv
24448    ./ IMG_0113.MOV
14652    ./ 1.mkv
15532    ./ iceland.mkv
41344    ./ IMG_0530.MOV
4        ./ Webcam
29932    ./ IMG_0663.MOV
62144    ./ IMG_0541.MOV
50400    ./ IMG_0421.MOV
85872    ./ IMG_0803.MOV
170396   ./ IMG_0389.MOV
```

```
5136    ./ IMG_0110.MOV
8      ./ sci .xges
29236   ./ IMG_0489.MOV
69388   ./ IMG_0094.MOV
16620   ./ AirBaloon.mkv
4652    ./ IMG_0804.MOV
8      ./ spider .xges
28532   ./ Top 5 Things to Do After Installing Ubuntu—E8eSog_bhsk.mkv
98996   ./ IMG_0539.MOV
50360   ./ IMG_0802.MOV
53576   ./ space .mkv
855076  .
```

**소감** 스크립트가 매우 유용하다는 것을 느꼈다.