Week05 Lab2 Sobell Ch10 Lab bash

By Jack Jones

For cs3377.0w1

Due 2/18/22

login as: joj210003

Pre-authentication banner message from server:

| University of Texas at Dallas

| Department of Computer Science

|

| Use of UTD Information Systems is subject to

| the UTD Information Security and Acceptable Use Policy.

|

| Pursuant to Texas Administrative Code 202:

| (1) Unauthorized use is prohibited;

| (2) Usage may be subject to security testing and monitoring;

| (3) Misuse is subject to criminal prosecution; and

| (4) No expectation of privacy except as otherwise provided by applicable

| privacy laws.

|

| ATTENTION: utdnetid != utdnetid@utdallas.edu (UTD != Google!)

|

| Just use utdnetid, and for the love of programming, STOP USING ALL CAPS!

|

| [[NOTE: All CS Graduate Students should use csgrads1.utdallas.edu ]]

| [[ If you are a CS Graduate Student, you cannot logon to this server.]]

|

|

| \*\*\*\*\* This system will require a connection to the GlobalProtect VPN startin

> g

| on the following dates:

|

| cslinux1.utdallas.edu - June 15, 2020

| cslinux2.utdallas.edu - June 22, 2020

|

| \*\*\*\*\* GlobalProtect VPN Instructions: https://www.utdallas.edu/oit/howto/vpn

> /

|

End of banner message from server

Keyboard-interactive authentication prompts from server:

End of keyboard-interactive prompts from server

┌──────────────────────────────────────────────────────────────────────┐

│ • MobaXterm Personal Edition v21.5 • │

│ (SSH client, X server and network tools) │

│ │

│ → SSH session to joj210003@cslinux1.utdallas.edu │

│ • Direct SSH : v │

│ • SSH compression : v │

│ • SSH-browser : v │

│ • X11-forwarding : v (remote display is forwarded through SSH) │

│ │

│ → For more info, ctrl+click on help or visit our website. │

└──────────────────────────────────────────────────────────────────────┘

Last login: Thu Feb 17 17:55:19 2022 from utdvpn-10-50-124-113.utdallas.edu

\*\*\*---\*\*\*---\*\*\*---\*\*\*---\*\*\*---\*\*\*

csgrads1.utdallas.edu - CentOS Linux 7.9

--All CS Graduate Students should use csgrads1--

cs1.utdallas.edu - CentOS Linux 7.9

cs2.utdallas.edu - CentOS Linux 7.9

\*\*\*---\*\*\*---\*\*\*---\*\*\*---\*\*\*---\*\*\*

This system is for use by CS students who need a general purpose Linux system

to complete homework assignments. Computationally or resource intensive

simulations will be throttled automatically.

Thank you,

CS Lab Manager

cs-labs@utdallas.edu

/scratch disk space can be used for temporary files.

All files within /scratch will be erased on a regular basis (Sunday 0300).

{cslinux1:~} cd Week05Labs

Part 1 all shell

{cslinux1:~/Week05Labs} vim all

{cslinux1:~/Week05Labs} chmod +x all

{cslinux1:~/Week05Labs} ls -l all

-rwx--x--x 1 joj210003 sn 196 Feb 18 13:55 all

{cslinux1:~/Week05Labs} ./all

./all 0

{cslinux1:~/Week05Labs} ./all test

./all 1 test

{cslinux1:~/Week05Labs} ./all testOne testTwo testThree testFour testFive

./all 5 testOne testTwo testThree testFour testFive

Part 2 linkto symbolic link

{cslinux1:~/Week05Labs} ln --symbolic all linkto

{cslinux1:~/Week05Labs} ./linkto testOne testTwo

./linkto 2 testOne testTwo

The script says the name is “./linkto”

Part 3 myname script

{cslinux1:~/Week05Labs} vim myname

{cslinux1:~/Week05Labs} chmod +x myname

{cslinux1:~/Week05Labs} ls -l myname

-rwx--x--x 1 joj210003 sn 193 Feb 18 14:44 myname

{cslinux1:~/Week05Labs} ./myname

Enter your name: Jack Jones

Hello Jack Jones

Part 4 myname2 script

{cslinux1:~/Week05Labs} vim myname2

{cslinux1:~/Week05Labs} chmod +x myname2

{cslinux1:~/Week05Labs} ./myname2

Enter your name: Jack Jones

{cslinux1:~/Week05Labs} cat PID.name

Jack Jones

Part 5 looper script

{cslinux1:~/Week05Labs} vim looper

{cslinux1:~/Week05Labs} chmod +x looper

{cslinux1:~/Week05Labs} ./looper testOne testTwo testThree

testOne

testTwo

testThree

Part 6 looper2 script

{cslinux1:~/Week05Labs} vim looper2

{cslinux1:~/Week05Labs} chmod +x looper2

{cslinux1:~/Week05Labs} ./looper2 testOne testTwo testThree

{1..3}

{cslinux1:~/Week05Labs} ./looper testOne testTwo testThree

testOne

testTwo

testThree

Part 7 ifthen script

{cslinux1:~/Week05Labs} vim ifthen

{cslinux1:~/Week05Labs} chmod +x ifthen

{cslinux1:~/Week05Labs} ./ifthen

>>hello

You entered: hello

{cslinux1:~/Week05Labs} ./ifthen

>>

Where is your input?

I needed to put quotation marks around the >> string to avoid an error message

Part 8 echomyvar shell

bash: part: command not found...

{cslinux1:~/Week05Labs} vim echomyvar

{cslinux1:~/Week05Labs} chmod +x echomyvar

{cslinux1:~/Week05Labs} echo $$

35062

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 39081

The value of myvar is:

My var is empty

{cslinux1:~/Week05Labs} myvar=7

{cslinux1:~/Week05Labs} echo $myvar

7

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 47134

The value of myvar is:

{cslinux1:~/Week05Labs} vim echomyvar

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 48011

The value of myvar is: 3

The script displays the variable typed in the command line

{cslinux1:~/Week05Labs} myvar=7

{cslinux1:~/Week05Labs} vim echomyvar

{cslinux1:~/Week05Labs} export myvar

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 4930

The value of myvar is: 7

The script displayed the value of my var

The PIDs are different

{cslinux1:~/Week05Labs} export

declare -x CVS\_RSH="ssh"

declare -x DISPLAY="localhost:42.0"

declare -x ED="pico"

declare -x EDIT="pico"

declare -x EDITOR="pico"

declare -x FMHOME="/usr/local/frame"

declare -x HISTCONTROL="ignoredups"

declare -x HISTFILESIZE="40"

declare -x HISTSIZE="40"

declare -x HOME="/home/013/j/jo/joj210003"

declare -x HOST="cslinux1.utdallas.edu"

declare -x HOSTNAME="cslinux1.utdallas.edu"

declare -x KDEDIRS="/usr"

declare -x KRB5CCNAME="KEYRING:persistent:727559"

declare -x LANG="en\_US.UTF-8"

declare -x LESSOPEN="||/usr/bin/lesspipe.sh %s"

declare -x LOADEDMODULES=""

declare -x LOGNAME="joj210003"

declare -x LS\_COLORS="rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=01;05;37;41:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:\*.tar=01;31:\*.tgz=01;31:\*.arc=01;31:\*.arj=01;31:\*.taz=01;31:\*.lha=01;31:\*.lz4=01;31:\*.lzh=01;31:\*.lzma=01;31:\*.tlz=01;31:\*.txz=01;31:\*.tzo=01;31:\*.t7z=01;31:\*.zip=01;31:\*.z=01;31:\*.Z=01;31:\*.dz=01;31:\*.gz=01;31:\*.lrz=01;31:\*.lz=01;31:\*.lzo=01;31:\*.xz=01;31:\*.bz2=01;31:\*.bz=01;31:\*.tbz=01;31:\*.tbz2=01;31:\*.tz=01;31:\*.deb=01;31:\*.rpm=01;31:\*.jar=01;31:\*.war=01;31:\*.ear=01;31:\*.sar=01;31:\*.rar=01;31:\*.alz=01;31:\*.ace=01;31:\*.zoo=01;31:\*.cpio=01;31:\*.7z=01;31:\*.rz=01;31:\*.cab=01;31:\*.jpg=01;35:\*.jpeg=01;35:\*.gif=01;35:\*.bmp=01;35:\*.pbm=01;35:\*.pgm=01;35:\*.ppm=01;35:\*.tga=01;35:\*.xbm=01;35:\*.xpm=01;35:\*.tif=01;35:\*.tiff=01;35:\*.png=01;35:\*.svg=01;35:\*.svgz=01;35:\*.mng=01;35:\*.pcx=01;35:\*.mov=01;35:\*.mpg=01;35:\*.mpeg=01;35:\*.m2v=01;35:\*.mkv=01;35:\*.webm=01;35:\*.ogm=01;35:\*.mp4=01;35:\*.m4v=01;35:\*.mp4v=01;35:\*.vob=01;35:\*.qt=01;35:\*.nuv=01;35:\*.wmv=01;35:\*.asf=01;35:\*.rm=01;35:\*.rmvb=01;35:\*.flc=01;35:\*.avi=01;35:\*.fli=01;35:\*.flv=01;35:\*.gl=01;35:\*.dl=01;35:\*.xcf=01;35:\*.xwd=01;35:\*.yuv=01;35:\*.cgm=01;35:\*.emf=01;35:\*.axv=01;35:\*.anx=01;35:\*.ogv=01;35:\*.ogx=01;35:\*.aac=01;36:\*.au=01;36:\*.flac=01;36:\*.mid=01;36:\*.midi=01;36:\*.mka=01;36:\*.mp3=01;36:\*.mpc=01;36:\*.ogg=01;36:\*.ra=01;36:\*.wav=01;36:\*.axa=01;36:\*.oga=01;36:\*.spx=01;36:\*.xspf=01;36:"

declare -x MAIL="/var/spool/mail/joj210003"

declare -x MBOX="/home/013/j/jo/joj210003/MAIL"

declare -x MODULEPATH="/usr/share/Modules/modulefiles:/etc/modulefiles"

declare -x MODULESHOME="/usr/share/Modules"

declare -x NNTPSERVER="news.utdallas.edu"

declare -x OLDPATH="/usr/lib64/qt-3.3/bin:/home/013/j/jo/joj210003/perl5/bin:/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/opt/dell/srvadmin/bin"

declare -x OLDPWD="/home/013/j/jo/joj210003"

declare -x PAGER="less"

declare -x PATH="/usr/local/bin:/usr/bin:/bin:/usr/ccs/bin:/sbin:/usr/sbin:/usr/local/openwin/bin:/usr/openwin/bin"

declare -x PERL5LIB="/home/013/j/jo/joj210003/perl5/lib/perl5:"

declare -x PERL\_LOCAL\_LIB\_ROOT=":/home/013/j/jo/joj210003/perl5"

declare -x PERL\_MB\_OPT="--install\_base /home/013/j/jo/joj210003/perl5"

declare -x PERL\_MM\_OPT="INSTALL\_BASE=/home/013/j/jo/joj210003/perl5"

declare -x PWD="/home/013/j/jo/joj210003/Week05Labs"

declare -x QTDIR="/usr/lib64/qt-3.3"

declare -x QTINC="/usr/lib64/qt-3.3/include"

declare -x QTLIB="/usr/lib64/qt-3.3/lib"

declare -x QT\_GRAPHICSSYSTEM\_CHECKED="1"

declare -x QT\_PLUGIN\_PATH="/usr/lib64/kde4/plugins:/usr/lib/kde4/plugins"

declare -x SHELL="/bin/bash"

declare -x SHLVL="1"

declare -x SIGN="/home/013/j/jo/joj210003/.signature"

declare -x SSH\_ASKPASS="/usr/libexec/openssh/gnome-ssh-askpass"

declare -x SSH\_CLIENT="10.50.124.113 61511 22"

declare -x SSH\_CONNECTION="10.50.124.113 61511 10.176.92.15 22"

declare -x SSH\_TTY="/dev/pts/49"

declare -x TERM="xterm"

declare -x TMPDIR="/usr/tmp"

declare -x USER="joj210003"

declare -x VISUAL="pico"

declare -x XDG\_DATA\_DIRS="/home/013/j/jo/joj210003/.local/share/flatpak/exports/share:/var/lib/flatpak/exports/share:/usr/local/share:/usr/share"

declare -x XDG\_RUNTIME\_DIR="/run/user/727559"

declare -x XDG\_SESSION\_ID="68860"

declare -x myvar="7"

declare -x var="/usr/bin"

{cslinux1:~/Week05Labs} export -n

declare -x CVS\_RSH="ssh"

declare -x DISPLAY="localhost:42.0"

declare -x ED="pico"

declare -x EDIT="pico"

declare -x EDITOR="pico"

declare -x FMHOME="/usr/local/frame"

declare -x HISTCONTROL="ignoredups"

declare -x HISTFILESIZE="40"

declare -x HISTSIZE="40"

declare -x HOME="/home/013/j/jo/joj210003"

declare -x HOST="cslinux1.utdallas.edu"

declare -x HOSTNAME="cslinux1.utdallas.edu"

declare -x KDEDIRS="/usr"

declare -x KRB5CCNAME="KEYRING:persistent:727559"

declare -x LANG="en\_US.UTF-8"

declare -x LESSOPEN="||/usr/bin/lesspipe.sh %s"

declare -x LOADEDMODULES=""

declare -x LOGNAME="joj210003"

declare -x LS\_COLORS="rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=01;05;37;41:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:\*.tar=01;31:\*.tgz=01;31:\*.arc=01;31:\*.arj=01;31:\*.taz=01;31:\*.lha=01;31:\*.lz4=01;31:\*.lzh=01;31:\*.lzma=01;31:\*.tlz=01;31:\*.txz=01;31:\*.tzo=01;31:\*.t7z=01;31:\*.zip=01;31:\*.z=01;31:\*.Z=01;31:\*.dz=01;31:\*.gz=01;31:\*.lrz=01;31:\*.lz=01;31:\*.lzo=01;31:\*.xz=01;31:\*.bz2=01;31:\*.bz=01;31:\*.tbz=01;31:\*.tbz2=01;31:\*.tz=01;31:\*.deb=01;31:\*.rpm=01;31:\*.jar=01;31:\*.war=01;31:\*.ear=01;31:\*.sar=01;31:\*.rar=01;31:\*.alz=01;31:\*.ace=01;31:\*.zoo=01;31:\*.cpio=01;31:\*.7z=01;31:\*.rz=01;31:\*.cab=01;31:\*.jpg=01;35:\*.jpeg=01;35:\*.gif=01;35:\*.bmp=01;35:\*.pbm=01;35:\*.pgm=01;35:\*.ppm=01;35:\*.tga=01;35:\*.xbm=01;35:\*.xpm=01;35:\*.tif=01;35:\*.tiff=01;35:\*.png=01;35:\*.svg=01;35:\*.svgz=01;35:\*.mng=01;35:\*.pcx=01;35:\*.mov=01;35:\*.mpg=01;35:\*.mpeg=01;35:\*.m2v=01;35:\*.mkv=01;35:\*.webm=01;35:\*.ogm=01;35:\*.mp4=01;35:\*.m4v=01;35:\*.mp4v=01;35:\*.vob=01;35:\*.qt=01;35:\*.nuv=01;35:\*.wmv=01;35:\*.asf=01;35:\*.rm=01;35:\*.rmvb=01;35:\*.flc=01;35:\*.avi=01;35:\*.fli=01;35:\*.flv=01;35:\*.gl=01;35:\*.dl=01;35:\*.xcf=01;35:\*.xwd=01;35:\*.yuv=01;35:\*.cgm=01;35:\*.emf=01;35:\*.axv=01;35:\*.anx=01;35:\*.ogv=01;35:\*.ogx=01;35:\*.aac=01;36:\*.au=01;36:\*.flac=01;36:\*.mid=01;36:\*.midi=01;36:\*.mka=01;36:\*.mp3=01;36:\*.mpc=01;36:\*.ogg=01;36:\*.ra=01;36:\*.wav=01;36:\*.axa=01;36:\*.oga=01;36:\*.spx=01;36:\*.xspf=01;36:"

declare -x MAIL="/var/spool/mail/joj210003"

declare -x MBOX="/home/013/j/jo/joj210003/MAIL"

declare -x MODULEPATH="/usr/share/Modules/modulefiles:/etc/modulefiles"

declare -x MODULESHOME="/usr/share/Modules"

declare -x NNTPSERVER="news.utdallas.edu"

declare -x OLDPATH="/usr/lib64/qt-3.3/bin:/home/013/j/jo/joj210003/perl5/bin:/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/opt/dell/srvadmin/bin"

declare -x OLDPWD="/home/013/j/jo/joj210003"

declare -x PAGER="less"

declare -x PATH="/usr/local/bin:/usr/bin:/bin:/usr/ccs/bin:/sbin:/usr/sbin:/usr/local/openwin/bin:/usr/openwin/bin"

declare -x PERL5LIB="/home/013/j/jo/joj210003/perl5/lib/perl5:"

declare -x PERL\_LOCAL\_LIB\_ROOT=":/home/013/j/jo/joj210003/perl5"

declare -x PERL\_MB\_OPT="--install\_base /home/013/j/jo/joj210003/perl5"

declare -x PERL\_MM\_OPT="INSTALL\_BASE=/home/013/j/jo/joj210003/perl5"

declare -x PWD="/home/013/j/jo/joj210003/Week05Labs"

declare -x QTDIR="/usr/lib64/qt-3.3"

declare -x QTINC="/usr/lib64/qt-3.3/include"

declare -x QTLIB="/usr/lib64/qt-3.3/lib"

declare -x QT\_GRAPHICSSYSTEM\_CHECKED="1"

declare -x QT\_PLUGIN\_PATH="/usr/lib64/kde4/plugins:/usr/lib/kde4/plugins"

declare -x SHELL="/bin/bash"

declare -x SHLVL="1"

declare -x SIGN="/home/013/j/jo/joj210003/.signature"

declare -x SSH\_ASKPASS="/usr/libexec/openssh/gnome-ssh-askpass"

declare -x SSH\_CLIENT="10.50.124.113 61511 22"

declare -x SSH\_CONNECTION="10.50.124.113 61511 10.176.92.15 22"

declare -x SSH\_TTY="/dev/pts/49"

declare -x TERM="xterm"

declare -x TMPDIR="/usr/tmp"

declare -x USER="joj210003"

declare -x VISUAL="pico"

declare -x XDG\_DATA\_DIRS="/home/013/j/jo/joj210003/.local/share/flatpak/exports/share:/var/lib/flatpak/exports/share:/usr/local/share:/usr/share"

declare -x XDG\_RUNTIME\_DIR="/run/user/727559"

declare -x XDG\_SESSION\_ID="68860"

declare -x myvar="7"

declare -x var="/usr/bin"

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 16686

The value of myvar is: 7

{cslinux1:~/Week05Labs} export -n myvar

{cslinux1:~/Week05Labs} echo $myvar

7

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 17160

The value of myvar is:

{cslinux1:~/Week05Labs} unset myvar

{cslinux1:~/Week05Labs} echo $myvar

{cslinux1:~/Week05Labs} ./echomyvar

The PID of this process is 17892

The value of myvar is:

{cslinux1:~/Week05Labs} exit

logout

────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────

Session stopped

- Press <return> to exit tab

- Press R to restart session

- Press S to save terminal output to file