

Linux Environment Variable Assignment

1. State the command for the following.

a. view current environment variables

```
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ env
SHELL=/bin/bash
WSL_DISTRO_NAME=Ubuntu-20.04
NAME=DESKTOP-TNF7R99
PWD=/home/trainee29/APCGWorkspace/Assignments/day04
LOGNAME=trainee29
HOME=/home/trainee29
LANG=C.UTF-8
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=00: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:*.lzh=01;31:*.lzm=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tztst=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:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=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:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
LESSCLOSE=/usr/bin/lesspipe %s %s
TERM=xterm-256color
LESSOPEN=| /usr/bin/lesspipe %s
USER=trainee29
SHLVL=1
WLENV=
XDG_DATA_DIRS=/usr/local/share:/usr/share:/var/lib/napd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/mnt/c/Program Files/WindowsApps/CanonicalGroupLimited.Ubuntu20.04 LTS_2004.5.11.0_x64__79rhkpfndgsc:/mnt/c/Program Files/Common Files/Oracle/Java/javapath:/mnt/c/WINDOWS/system32:/mnt/c/WINDOWS:/mnt/c/WINDOWS/System32/Wbem:/mnt/c/Program Files/Java/jdk-14.0.2/bin:/mnt/c/WINDOWS/System32/OpenSSH:/mnt/c/Program Files/Java/jdk-17.0.2/bin:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39/Scripts:/mnt/c/WINDOWS/System32/WindowsPowerShell/v1.0:/mnt/c/Program Files/MySQL/MySQL Shell 8.0/bin:/mnt/c/Local/Programs/Microsoft VS Code/bin:/snap/bin
HOSTTYPE=x86_64
_=/usr/bin/env
OLDPWD=/home/trainee29/APCGWorkspace/Assignments/day04/ShellScript
```

b. display the PATH environment variable value

```
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/mnt/c/Program Files/WindowsApps/CanonicalGroupLimited.Ubuntu20.04 LTS_2004.5.11.0_x64__79rhkpfndgsc:/mnt/c/Program Files/Common Files/Oracle/Java/javapath:/mnt/c/WINDOWS/system32:/mnt/c/WINDOWS:/mnt/c/WINDOWS/System32/Wbem:/mnt/c/Program Files/Java/jdk-14.0.2/bin:/mnt/c/WINDOWS/System32/OpenSSH:/mnt/c/Program Files/Java/jdk-17.0.2/bin:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39/Scripts:/mnt/c/WINDOWS/System32/WindowsPowerShell/v1.0:/mnt/c/Program Files/MySQL/MySQL Shell 8.0/bin:/mnt/c/Local/Programs/Microsoft VS Code/bin:/snap/bin
```

c. update PATH to include the path to your home directory

```
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ export PATH="$HOME/bin:$PATH"
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ nano ~/.bashrc
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ source ~/.bashrc
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$ echo $PATH
/home/trainee29/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/mnt/c/Program Files/WindowsApps/CanonicalGroupLimited.Ubuntu20.04 LTS_2004.5.11.0_x64__79rhkpfndgsc:/mnt/c/Program Files/Common Files/Oracle/Java/javapath:/mnt/c/WINDOWS/system32:/mnt/c/WINDOWS:/mnt/c/WINDOWS/System32/Wbem:/mnt/c/Program Files/Java/jdk-14.0.2/bin:/mnt/c/WINDOWS/System32/OpenSSH:/mnt/c/Program Files/Java/jdk-17.0.2/bin:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39:/mnt/c/Users/ANNAYASHA PAUL/AppData/Local/Programs/Python/Python39/Scripts:/mnt/c/WINDOWS/System32/WindowsPowerShell/v1.0:/mnt/c/Program Files/MySQL/MySQL Shell 8.0/bin:/mnt/c/Local/Programs/Microsoft VS Code/bin:/snap/bin
trainee29@DESKTOP-TNF7R99:~/APCGWorkspace/Assignments/day04$
```

2. How will you make the environment changes applicable to all users? Which script is to be modified?

Ans: To make permanent changes to the environment variables for all new accounts, go to your /etc/skel files, such as .bashrc, and change the ones that are already there or enter the new ones. When you create new users, these /etc/skel files will be copied to the new user's home directory.

3. I have installed an application named "myapp". After installation, if I invoke the application, it fails with error as "Command myapp not found". How will you fix this?

Ans: The following solution are:

```
$ npm config set prefix /usr/local  
$ sudo npm install -g create-react-app  
$ create-react-app my-app
```