

Week Report 5

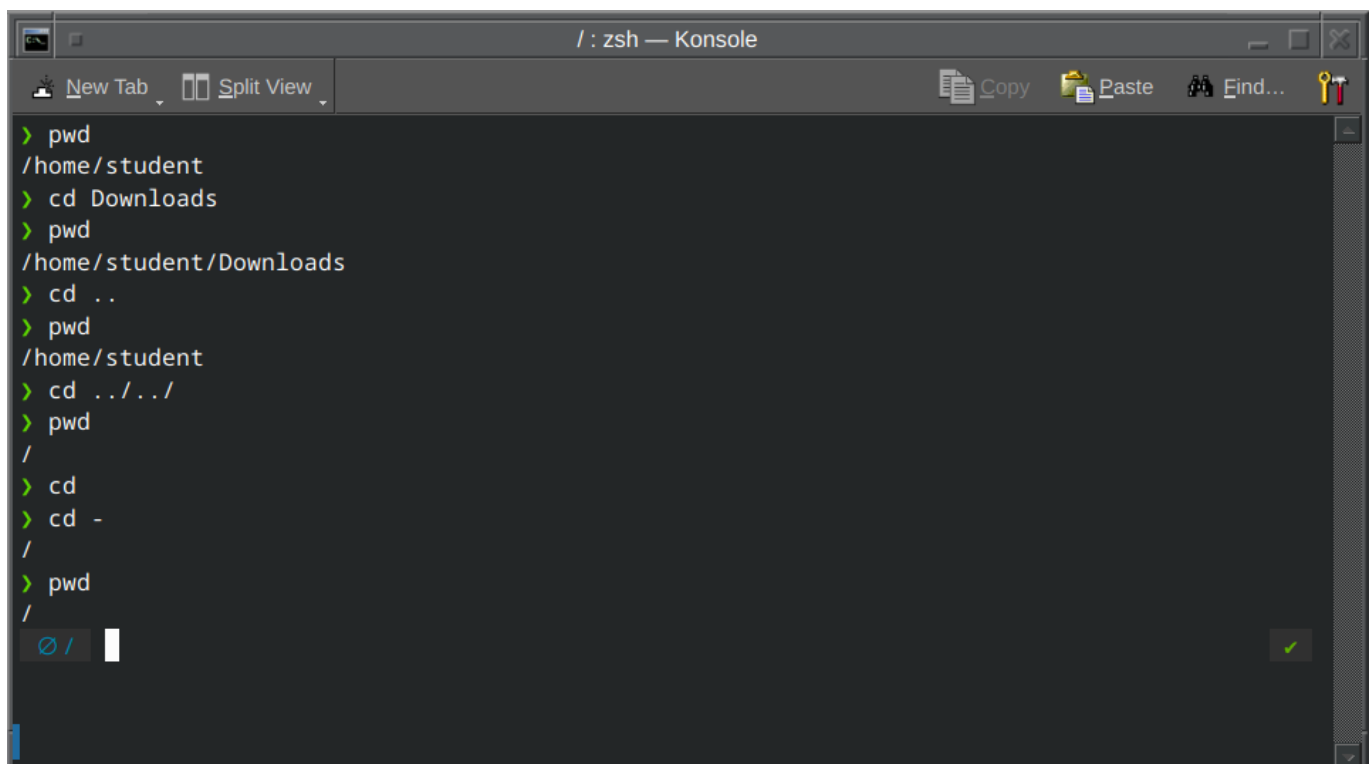
Completed work for week 5:

- [Lab 5](#)
- [Notes 5](#)

Practice Screenshots

Linux Filesystem

Practice 1



```
/: zsh — Konsole
New Tab Split View Copy Paste Find...
> pwd
/home/student
> cd Downloads
> pwd
/home/student/Downloads
> cd ..
> pwd
/home/student
> cd ../../
> pwd
/
> cd
> cd -
/
> pwd
/
0 /
```

Practice 2

```
practicels : zsh — Konsole
New Tab Split View Copy Paste Find...
> ls
book.txt      history-debian.pdf  movie.mp4  song.mp3  tux-penguin.gif
countries.xml homework.docx      people.csv tux-nobg.png
> ls -a
.  book.txt      history-debian.pdf  movie.mp4  song.mp3  tux-penguin.gif
.. countries.xml homework.docx      people.csv tux-nobg.png
> ls -l
total 2932
-rw-r--r--. 1 student student 1043 Feb 27 2022 book.txt
-rw-r--r--. 1 student student 23972 Feb 27 2022 countries.xml
-rw-r--r--. 1 student student 163057 Feb 27 2022 history-debian.pdf
-rw-r--r--. 1 student student 111303 Feb 22 2022 homework.docx
-rw-r--r--. 1 student student 1570024 Feb 27 2022 movie.mp4
-rw-r--r--. 1 student student 284042 Feb 27 2022 people.csv
-rw-r--r--. 1 student student 764176 Feb 27 2022 song.mp3
-rw-r--r--. 1 student student 21314 Feb 27 2022 tux-nobg.png
-rw-r--r--. 1 student student 44299 Jan 31 2020 tux-penguin.gif
> ls -lh
total 2.9M
-rw-r--r--. 1 student student 1.1K Feb 27 2022 book.txt
-rw-r--r--. 1 student student 24K Feb 27 2022 countries.xml
-rw-r--r--. 1 student student 160K Feb 27 2022 history-debian.pdf
-rw-r--r--. 1 student student 109K Feb 22 2022 homework.docx
-rw-r--r--. 1 student student 1.5M Feb 27 2022 movie.mp4
-rw-r--r--. 1 student student 278K Feb 27 2022 people.csv
-rw-r--r--. 1 student student 747K Feb 27 2022 song.mp3
-rw-r--r--. 1 student student 21K Feb 27 2022 tux-nobg.png
-rw-r--r--. 1 student student 44K Jan 31 2020 tux-penguin.gif
~/practicels
```

```
practicels : zsh — Konsole
New Tab Split View Copy Paste Find...
> ls -lht
total 2.9M
-rw-r--r--. 1 student student 24K Feb 27 2022 countries.xml
-rw-r--r--. 1 student student 278K Feb 27 2022 people.csv
-rw-r--r--. 1 student student 747K Feb 27 2022 song.mp3
-rw-r--r--. 1 student student 1.5M Feb 27 2022 movie.mp4
-rw-r--r--. 1 student student 160K Feb 27 2022 history-debian.pdf
-rw-r--r--. 1 student student 21K Feb 27 2022 tux-nobg.png
-rw-r--r--. 1 student student 1.1K Feb 27 2022 book.txt
-rw-r--r--. 1 student student 109K Feb 22 2022 homework.docx
-rw-r--r--. 1 student student 44K Jan 31 2020 tux-penguin.gif
> ls -oghs
total 2.9M
-rw-r--r--. 1 1.5M Feb 27 2022 movie.mp4
-rw-r--r--. 1 747K Feb 27 2022 song.mp3
-rw-r--r--. 1 278K Feb 27 2022 people.csv
-rw-r--r--. 1 160K Feb 27 2022 history-debian.pdf
-rw-r--r--. 1 109K Feb 22 2022 homework.docx
-rw-r--r--. 1 44K Jan 31 2020 tux-penguin.gif
-rw-r--r--. 1 24K Feb 27 2022 countries.xml
-rw-r--r--. 1 21K Feb 27 2022 tux-nobg.png
-rw-r--r--. 1 1.1K Feb 27 2022 book.txt
~/practicels
```

```
practicels : zsh — Konsole
New Tab Split View Copy Paste Find...
> ls -lmr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
> ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
~/practicels
```

Practice 3

```
usr : zsh — Konsole
New Tab Split View Copy Paste Find...
> pwd
/home/student
> cd
> cd /
> cd usr/share/themes
> cd ../../
> ls -a ~
.                .config          .oh-my-zsh       .vscode
..               Desktop        .p10k.zsh        .xauthD3YNCw
.bash_history    Documents        Pictures         .zcompdump
.bash_logout     .dotnet          .pki             .zcompdump-fedora-5.9
.bash_profile    Downloads        practicels       .zcompdump-fedora-5.9.zwc
.bashrc          .gitconfig       Public           .zprofile
.cache           .gtkrc-2.0       snap            .zsh_history
cis106           .gtkrc-2.0-kde4 .ssh             .zshrc
.claude          .local           Templates       .zshrc.pre-oh-my-zsh
.claude.json     .mozilla         .var
.claude.json.backup Music            Videos
> ls -atX ~/cis106
cheat_sheets final_project labs markdown_practice notes week_reports . .. .git
> ls -rRa /home/student/cis106
/home/student/cis106:
week_reports notes markdown_practice labs .git final_project cheat_sheets .. .

/home/student/cis106/week_reports:
wr3 wr2 wr1 .. .
```

```

usr : zsh — Konsole
New Tab Split View Copy Paste Find...
> ls -lha ~
total 440K
drwx----- 1 student student 768 Nov  1 14:57 .
drwxr-xr-x 1 root  root    26 Oct 12 11:37 ..
-rw----- 1 student student 377 Oct 12 13:11 .bash_history
-rw-r--r-- 1 student student  18 Nov  7  2024 .bash_logout
-rw-r--r-- 1 student student 144 Nov  7  2024 .bash_profile
-rw-r--r-- 1 student student 522 Nov  7  2024 .bashrc
drwxr-xr-x 1 student student 1.6K Nov  1 14:47 .cache
drwxr-xr-x 1 student student 134 Oct 12 13:39 cis106
drwxr-xr-x 1 student student 104 Oct 12 15:23 .claude
-rw----- 1 student student 30K Oct 12 15:50 .claude.json
-rw----- 1 student student 30K Oct 12 15:50 .claude.json.backup
drwx----- 1 student student 1.7K Oct 12 16:47 .config
drwxr-xr-x 1 student student  20 Oct 12 11:50 Desktop
drwxr-xr-x 1 student student  20 Oct 30 18:46 Documents
drwxr-xr-x 1 student student  12 Oct 12 13:56 .dotnet
drwxr-xr-x 1 student student 162 Oct 31 15:29 Downloads
-rw-r--r-- 1 student student  58 Oct 12 15:59 .gitconfig
-rw-r--r-- 1 student student   0 Oct 12 16:47 .gtkrc-2.0
-rw-r--r-- 1 student student 409 Oct 12 13:38 .gtkrc-2.0-kde4
drwxr-xr-x 1 student student  20 Oct 12 11:50 .local
drwxr-xr-x 1 student student  48 Oct 12 11:51 .mozilla
drwxr-xr-x 1 student student   0 Oct 12 11:50 Music
drwxr-xr-x 1 student student 356 Oct 12 13:27 .oh-my-zsh
-rw-r--r-- 1 student student 89K Oct 12 13:33 .p10k.zsh
drwxr-xr-x 1 student student  22 Oct 12 13:35 Pictures
drwx----- 1 student student  10 Oct 12 12:10 .pki
drwxr-xr-x 1 student student 212 Feb 27  2022 practicels
drwxr-xr-x 1 student student   0 Oct 12 11:50 Public
drwx----- 1 student student  10 Oct 12 15:17 snap
drwx----- 1 student student 100 Oct 12 13:09 .ssh
drwxr-xr-x 1 student student   0 Oct 12 11:50 Templates
drwxr-xr-x 1 student student   6 Oct 12 11:50 .var
drwxr-xr-x 1 student student   0 Oct 12 11:50 Videos
drwxr-xr-x 1 student student  44 Oct 12 12:10 .vscode
-rw----- 1 student student  96 Oct 30 18:07 .xauthD3YNCw
-rw-r--r-- 1 student student 51K Oct 12 13:12 .zcompdump
-rw-r--r-- 1 student student 52K Oct 30 18:07 .zcompdump-fedora-5.9
-r--r--r-- 1 student student 122K Oct 30 18:07 .zcompdump-fedora-5.9.zwc
-rw-r--r-- 1 student student 299 Sep 28 20:00 .zprofile
-rw----- 1 student student 8.4K Nov  1 14:57 .zsh_history
-rw-r--r-- 1 student student 4.5K Oct 12 13:33 .zshrc
-rw-r--r-- 1 student student 658 Sep 28 20:00 .zshrc.pre-oh-my-zsh
> ls -oga --full-time ~
total 440
drwx----- 1 768 2025-11-01 15:02:52.052017746 -0400 .
drwxr-xr-x 1 26 2025-10-12 11:37:11.311600810 -0400 ..
-rw----- 1 377 2025-10-12 13:11:39.603954234 -0400 .bash_history
-rw-r--r-- 1 18 2024-11-07 19:00:00.000000000 -0500 .bash_logout

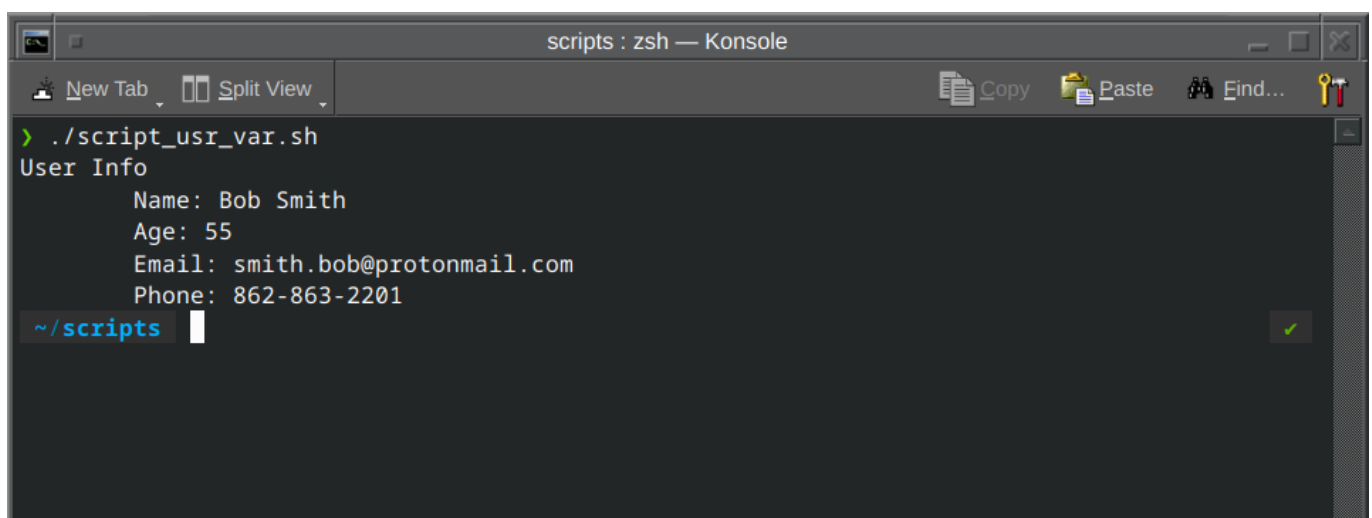
```

Shell Scripting Practice 1

env Variable practice

```
> cd ~/scripts
> nvim script_env_var.sh
> ls
script_env_var.sh
> cat script_env_var.sh
#!/bin/bash
echo "Current user is $USER"
echo "Current shell is $SHELL"
echo "Current home directory is $HOME"
echo "The path is $PATH"
> chmod +x script_env_var.sh
> ./script_env_var.sh
Current user is student
Current shell is /usr/bin/zsh
Current home directory is /home/student
The path is /usr/local/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/var/lib/snapd/snap
```

User variable practice



```
scripts : zsh — Konsole
New Tab Split View Copy Paste Find...
> ./script_usr_var.sh
User Info
    Name: Bob Smith
    Age: 55
    Email: smith.bob@protonmail.com
    Phone: 862-863-2201
~/scripts
```