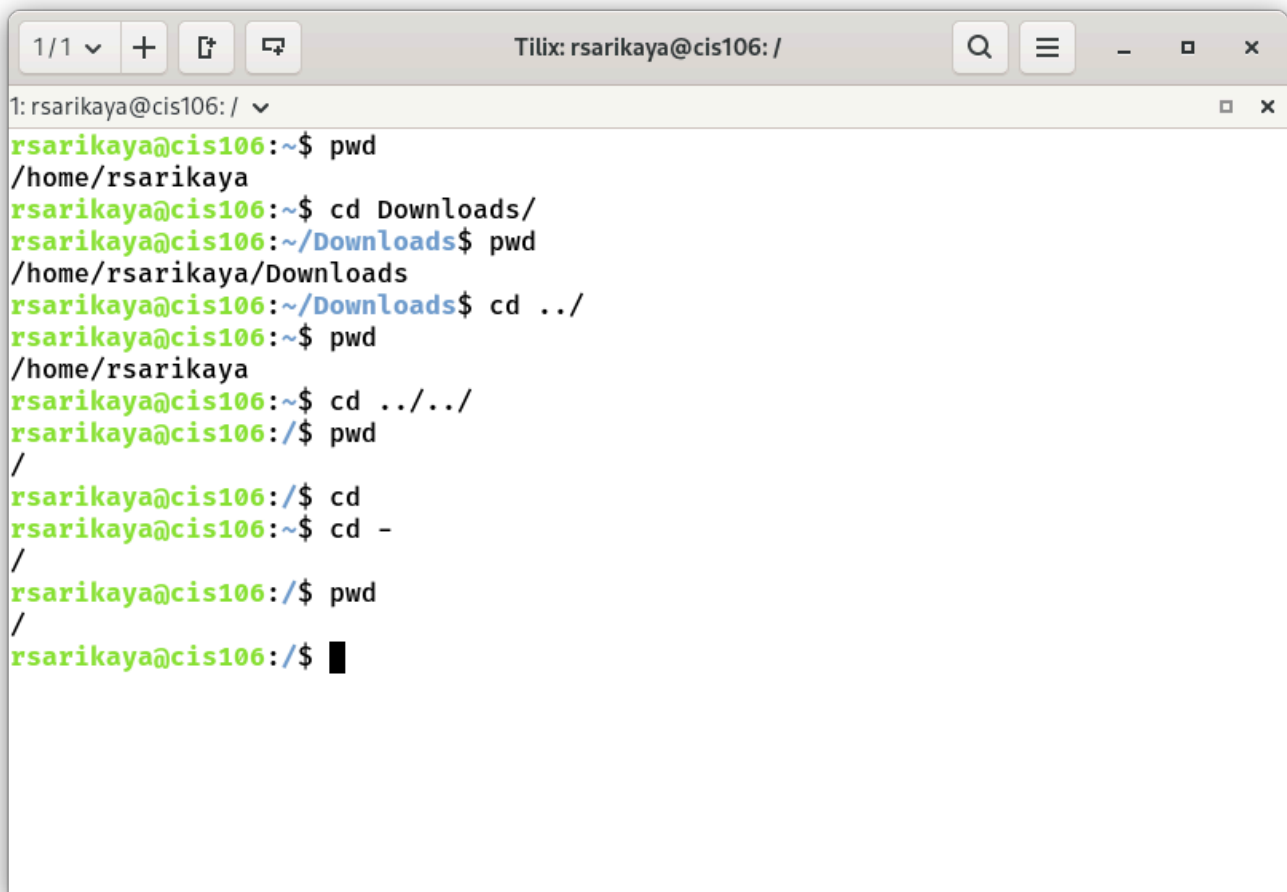


Week Report 5

Practices

The linux Filesystem:

Practice 1



```
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Tilix: rsarikaya@cis106: / 🔍 ☰ - □ ×
1: rsarikaya@cis106: / ▾ □ ×
rsarikaya@cis106:~$ pwd
/home/rsarikaya
rsarikaya@cis106:~$ cd Downloads/
rsarikaya@cis106:~/Downloads$ pwd
/home/rsarikaya/Downloads
rsarikaya@cis106:~/Downloads$ cd ../
rsarikaya@cis106:~$ pwd
/home/rsarikaya
rsarikaya@cis106:~$ cd ../../
rsarikaya@cis106:/$ pwd
/
rsarikaya@cis106:/$ cd
rsarikaya@cis106:~$ cd -
/
rsarikaya@cis106:/$ pwd
/
rsarikaya@cis106:/$ █
```

Practice 2

```

1/1 + [ ] [ ] Tilix: rsarikaya@cis106: ~/practicels [ ] [ ] [ ] [ ]
1: rsarikaya@cis106: ~/practicels
rsarikaya@cis106:~$ wget https://cis106.com/assets/practicels.tar.xz
--2025-10-30 03:40:36-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'

practicels.tar.xz  100%[=====>]  2.12M  6.26MB/s   in 0.3s

2025-10-30 03:40:37 (6.26 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

rsarikaya@cis106:~$ tar Jfx practicels.tar.xz
rsarikaya@cis106:~$ cd practicels/
rsarikaya@cis106:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml  homework.docx      people.csv  tux-nobg.png
rsarikaya@cis106:~/practicels$ ls -a
.      countries.xml      movie.mp4  tux-nobg.png
..     history-debian.pdf people.csv  tux-penguin.gif
book.txt homework.docx      song.mp3
rsarikaya@cis106:~/practicels$ █

```

```

1/1 + [ ] [ ] Tilix: rsarikaya@cis106: ~/practicels [ ] [ ] [ ] [ ]
1: rsarikaya@cis106: ~/practicels
book.txt  homework.docx  song.mp3
rsarikaya@cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 rsarikaya rsarikaya 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 rsarikaya rsarikaya 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 rsarikaya rsarikaya 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 rsarikaya rsarikaya 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 rsarikaya rsarikaya 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 rsarikaya rsarikaya 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 rsarikaya rsarikaya 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 rsarikaya rsarikaya 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 rsarikaya rsarikaya 44299 Jan 31 2020 tux-penguin.gif
rsarikaya@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 rsarikaya rsarikaya 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 rsarikaya rsarikaya 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 rsarikaya rsarikaya 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 rsarikaya rsarikaya 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 rsarikaya rsarikaya 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 rsarikaya rsarikaya 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 rsarikaya rsarikaya 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 rsarikaya rsarikaya 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 rsarikaya rsarikaya 44K Jan 31 2020 tux-penguin.gif
rsarikaya@cis106:~/practicels$ █

```

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1/1 ▾ + [?] [?] Tilix: rsarikaya@cis106: ~/practicels [Q] [≡] - □ ×
1: rsarikaya@cis106: ~/practicels ▾ □ ×
-rw-rw-r-- 1 rsarikaya rsarikaya 44K Jan 31 2020 tux-penguin.gif
rsarikaya@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 rsarikaya rsarikaya 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 rsarikaya rsarikaya 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 rsarikaya rsarikaya 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 rsarikaya rsarikaya 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 rsarikaya rsarikaya 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 rsarikaya rsarikaya 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 rsarikaya rsarikaya 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 rsarikaya rsarikaya 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 rsarikaya rsarikaya 44K Jan 31 2020 tux-penguin.gif
rsarikaya@cis106:~/practicels$ ls -lhgGS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
rsarikaya@cis106:~/practicels$
```

```
1/1 ▾ + 🔍 🔄
Tilix: rsarikaya@cis106: ~/practicels
1: rsarikaya@cis106: ~/practicels ▾
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
rsarikaya@cis106:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
rsarikaya@cis106:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
rsarikaya@cis106:~/practicels$
```

```

1/1  +  [ ]  [ ]  Tilix: rsarikaya@cis106: /usr  [ ]  [ ]  [ ]  [ ]
1: rsarikaya@cis106: /usr  [ ]  [ ]
rsarikaya@cis106:~$ pwd
/home/rsarikaya
rsarikaya@cis106:~$ cd
rsarikaya@cis106:~$ cd /
rsarikaya@cis106:/$ cd usr/share/themes/
rsarikaya@cis106:/usr/share/themes$ cd ../../
rsarikaya@cis106:/usr$ ls -A ~
.bash_aliases      .gitconfig          .sudo_as_admin_successful
.bash_history      .gnupg              Templates
.bash_logout       .local              Todo.md
.bashrc            .mozilla            .vboxclient-clipboard-tty2-control.pid
.cache             Music               .vboxclient-clipboard-tty2-service.pid
cis106             Pictures            .vboxclient-draganddrop-tty2-control.pid
.config            .pki                .vboxclient-hostversion-tty2-control.pid
Desktop            practicels          .vboxclient-seamless-tty2-control.pid
Documents          practicels.tar.xz   .vboxclient-vmvga-session-tty2-control.pid
.dotnet            .profile            .vboxclient-vmvga-session-tty2-service.pid
Downloads          Public              Videos
.face              scripts             .vscode
.face.icon         snap                .wget-hsts
.fonts             .ssh
rsarikaya@cis106:/usr$ █

```

```

1/1  +  [ ]  [ ]  Tilix: rsarikaya@cis106: ~  [ ]  [ ]  [ ]  [ ]
1: rsarikaya@cis106: ~  [ ]  [ ]
rsarikaya@cis106:~$ ls -tX cis106/
cheat_sheets  labs  notes  week_reports
rsarikaya@cis106:~$ ls -rR ~/cis106/
/home/rsarikaya/cis106/:
week_reports  notes  labs  cheat_sheets

/home/rsarikaya/cis106/week_reports:
wr5  wr4  wr3  wr2  wr1

/home/rsarikaya/cis106/week_reports/wr5:
wr5.md      practice2.4.png  practice2.2.png  practice1.png
practice3.1.png  practice2.3.png  practice2.1.png

/home/rsarikaya/cis106/week_reports/wr4:
wr4.pdf  wr4.md  ShellScriptingP1.png  ManagingSoftwareP1.png

/home/rsarikaya/cis106/week_reports/wr3:
wr3.pdf  practice9.png  practice7.png  practice5.png  Practice3.png
wr3.md  practice8.png  practice6.png  practice4.png  practice10.png

/home/rsarikaya/cis106/week_reports/wr2:
wr2SS.png  wr2.pdf  wr2.md

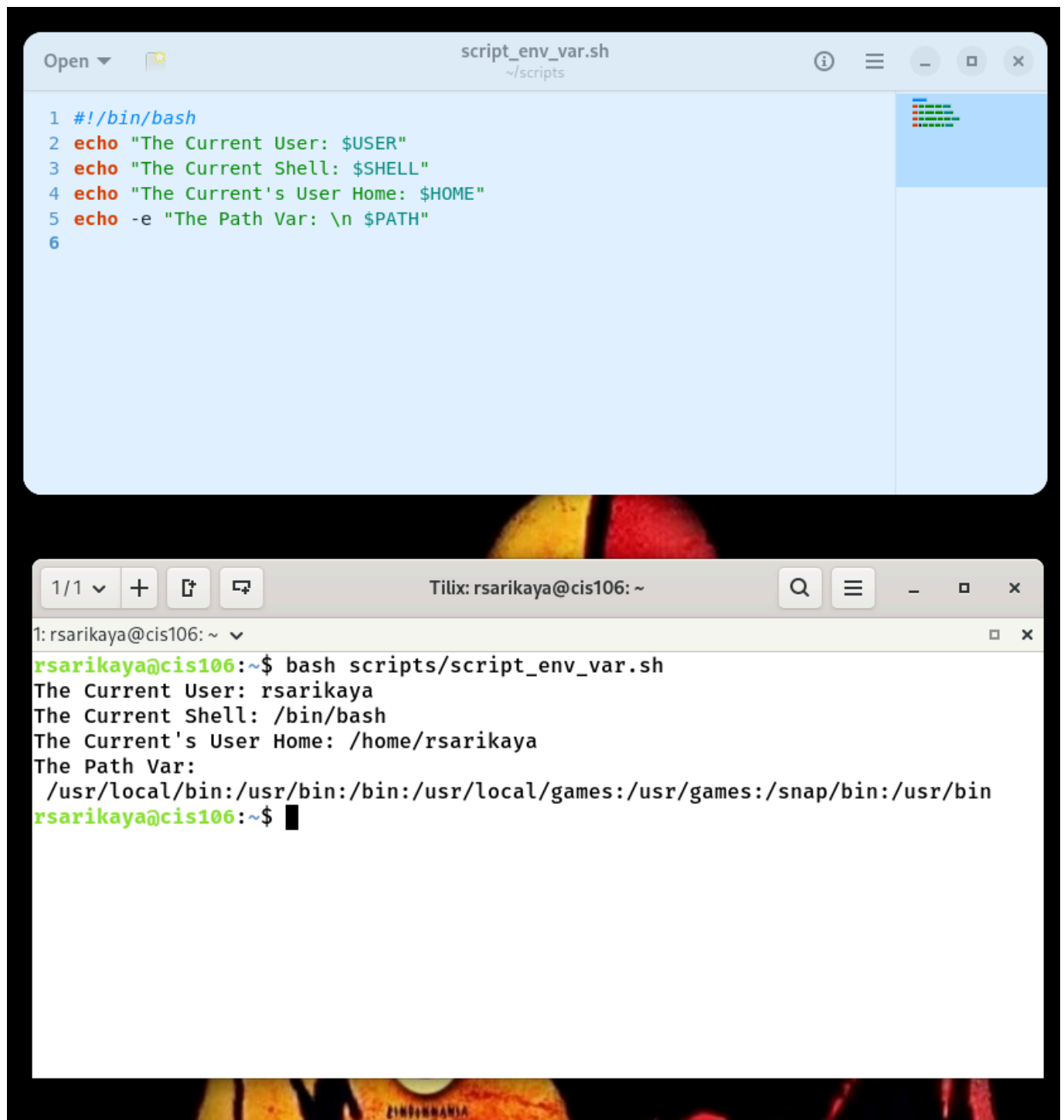
/home/rsarikaya/cis106/week_reports/wr1:

```

```
1/1 ▾ + 🔍 🔄
Tilix: rsarikaya@cis106: ~
1: rsarikaya@cis106: ~ ▾
rsarikaya@cis106:~$ ls -lh ~
total 2.2M
drwxrwxr-x 7 rsarikaya rsarikaya 4.0K Oct 18 17:51 cis106
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 16:30 Desktop
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 18:21 Documents
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Oct 23 04:58 Downloads
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 16:30 Music
drwxr-xr-x 3 rsarikaya rsarikaya 4.0K Oct 23 18:47 Pictures
drwxrwxr-x 2 rsarikaya rsarikaya 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 rsarikaya rsarikaya 2.2M Oct 29 14:47 practicels.tar.xz
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 16:30 Public
drwxrwxr-x 2 rsarikaya rsarikaya 4.0K Oct 23 18:34 scripts
drwx----- 3 rsarikaya rsarikaya 4.0K Oct 13 21:15 snap
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 16:30 Templates
-rw-rw-r-- 1 rsarikaya rsarikaya 130 Oct 13 22:32 Todo.md
drwxr-xr-x 2 rsarikaya rsarikaya 4.0K Sep 25 16:30 Videos
rsarikaya@cis106:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
rsarikaya@cis106:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
rsarikaya@cis106:~$
```

Shell Scripting Chapter 2:

Practice 2



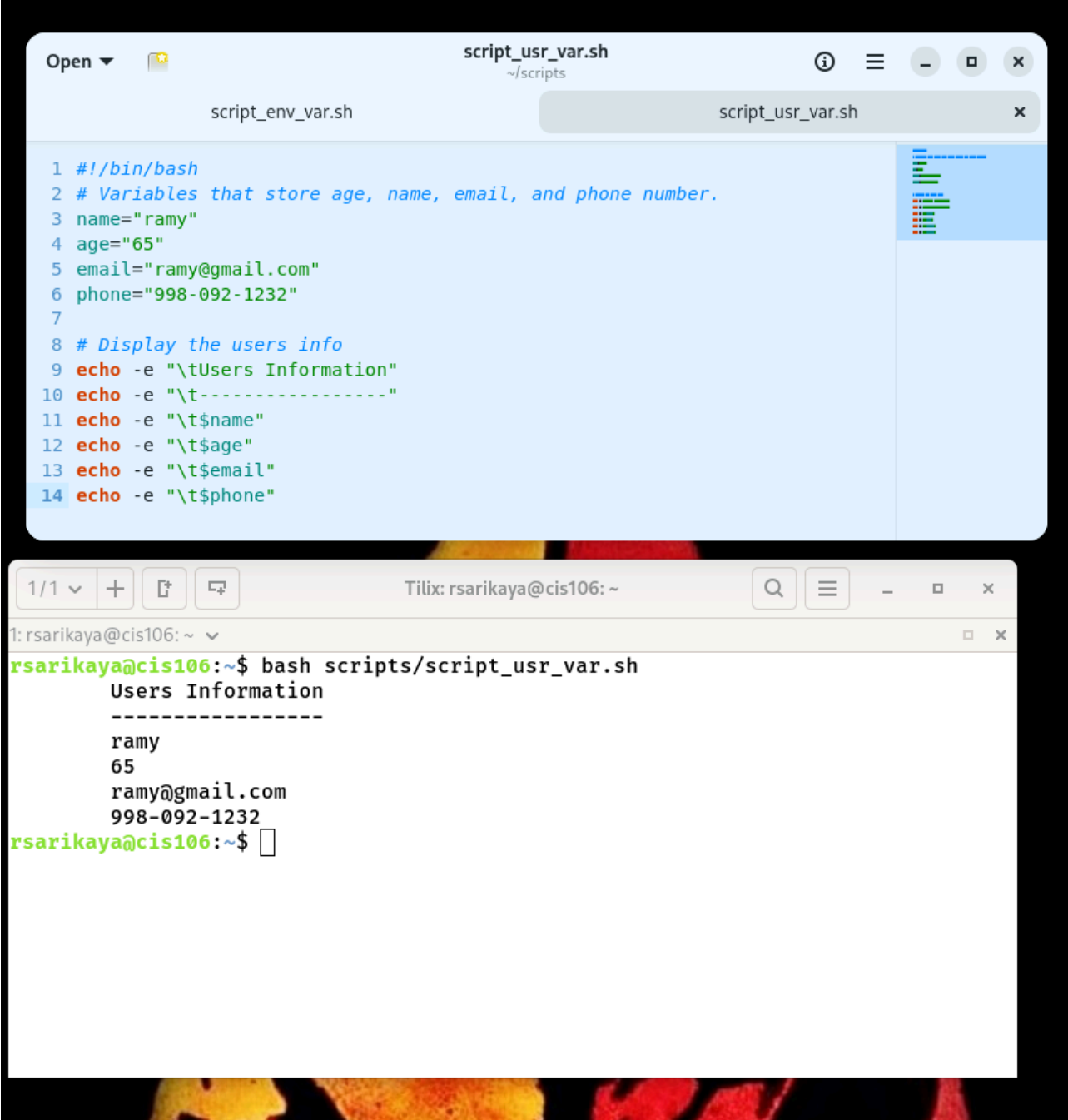
The image shows two windows from a desktop environment. The top window is a code editor titled 'script_env_var.sh' located at '~/scripts'. It contains a shell script with six lines: a shebang, and four 'echo' commands that print the values of the environment variables \$USER, \$SHELL, \$HOME, and \$PATH. The bottom window is a terminal titled 'Tilix: rsarikaya@cis106: ~'. It shows the user running the script with 'bash scripts/script_env_var.sh'. The terminal output displays the current user as 'rsarikaya', the shell as '/bin/bash', the home directory as '/home/rsarikaya', and the PATH variable as '/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr/games:/snap/bin:/usr/bin'.

```
script_env_var.sh
~/scripts

1 #!/bin/bash
2 echo "The Current User: $USER"
3 echo "The Current Shell: $SHELL"
4 echo "The Current's User Home: $HOME"
5 echo -e "The Path Var: \n $PATH"
6

1/1 + [ ] [ ] Tilix: rsarikaya@cis106: ~ Q ≡ - □ ×
1: rsarikaya@cis106: ~ ▾
rsarikaya@cis106:~$ bash scripts/script_env_var.sh
The Current User: rsarikaya
The Current Shell: /bin/bash
The Current's User Home: /home/rsarikaya
The Path Var:
/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr/games:/snap/bin:/usr/bin
rsarikaya@cis106:~$ █
```

Practice 3



The image shows a code editor window at the top and a terminal window at the bottom. The code editor displays a shell script named `script_usr_var.sh` with the following content:

```
1 #!/bin/bash
2 # Variables that store age, name, email, and phone number.
3 name="ramy"
4 age="65"
5 email="ramy@gmail.com"
6 phone="998-092-1232"
7
8 # Display the users info
9 echo -e "\tUsers Information"
10 echo -e "\t-----"
11 echo -e "\t$name"
12 echo -e "\t$age"
13 echo -e "\t$email"
14 echo -e "\t$phone"
```

The terminal window, titled "Tilix: rsarikaya@cis106: ~", shows the execution of the script:

```
1: rsarikaya@cis106: ~
rsarikaya@cis106:~$ bash scripts/script_usr_var.sh
Users Information
-----
ramy
65
ramy@gmail.com
998-092-1232
rsarikaya@cis106:~$
```

Links

- [Lab5](#)
- [Notes5](#)