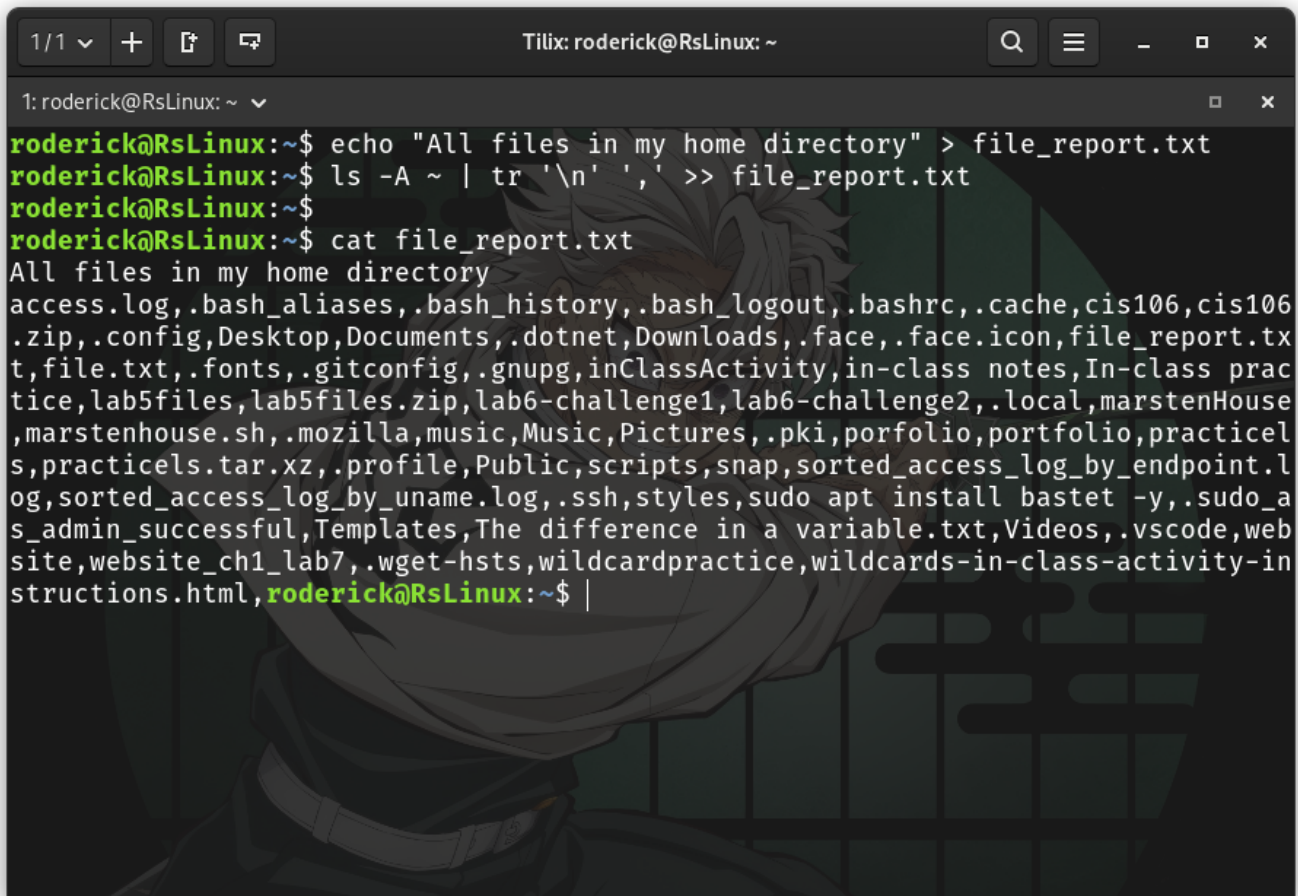


Lab 9

Question 1

A screenshot of a terminal window titled 'Tilix: roderick@RsLinux: ~'. The terminal shows a series of commands and their outputs. The first command is 'echo "All files in my home directory" > file_report.txt'. The second command is 'ls -A ~ | tr '\n' ',' >> file_report.txt'. The third command is 'cat file_report.txt', which outputs a list of files and directories in the home directory, including .access.log, .bash_aliases, .bash_history, .bash_logout, .bashrc, .cache, cis106, cis106.zip, .config, Desktop, Documents, .dotnet, Downloads, .face, .face.icon, file_report.txt, file.txt, .fonts, .gitconfig, .gnupg, inClassActivity, in-class notes, In-class practice, lab5files, lab5files.zip, lab6-challenge1, lab6-challenge2, .local, marstenHouse, marstenhouse.sh, .mozilla, music, Music, Pictures, .pki, porfolio, portfolio, practicels, practicels.tar.xz, .profile, Public, scripts, snap, sorted_access_log_by_endpoint.log, sorted_access_log_by_username.log, .ssh, styles, sudo apt install bastet -y, .sudo_as_admin_successful, Templates, The difference in a variable.txt, Videos, .vscode, website, website_ch1_lab7, .wget-hsts, wildcardpractice, wildcards-in-class-activity-instructions.html, and roderick@RsLinux:~\$. The terminal background features a faint anime-style illustration of a character with long hair and a headband.

```
1/1 ▾ + [ ] [ ]
Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~ ▾
roderick@RsLinux:~$ echo "All files in my home directory" > file_report.txt
roderick@RsLinux:~$ ls -A ~ | tr '\n' ',' >> file_report.txt
roderick@RsLinux:~$
roderick@RsLinux:~$ cat file_report.txt
All files in my home directory
access.log,.bash_aliases,.bash_history,.bash_logout,.bashrc,.cache,cis106,cis106
.zip,.config,Desktop,Documents,.dotnet,Downloads,.face,.face.icon,file_report.tx
t,file.txt,.fonts,.gitconfig,.gnupg,inClassActivity,in-class notes,In-class prac
tice,lab5files,lab5files.zip,lab6-challenge1,lab6-challenge2,.local,marstenHouse
,marstenhouse.sh,.mozilla,music,Music,Pictures,.pki,porfolio,portfolio,practicel
s,practicels.tar.xz,.profile,Public,scripts,snap,sorted_access_log_by_endpoint.l
og,sorted_access_log_by_username.log,.ssh,styles,sudo apt install bastet -y,.sudo_a
s_admin_successful,Templates,The difference in a variable.txt,Videos,.vscode,web
site,website_ch1_lab7,.wget-hsts,wildcardpractice,wildcards-in-class-activity-in
structions.html,roderick@RsLinux:~$ |
```

Question 2

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~ [ ] [ ] [ ] [ ]
1: roderick@RsLinux: ~ [ ] [ ]
roderick@RsLinux:~$ echo "Total number of files in my home directory" >> file_report.txt
roderick@RsLinux:~$ ls -lA ~ | grep '^-' | wc -l >> file_report.txt
roderick@RsLinux:~$ echo "Total number of directories in my home directory" >> file_report.txt
roderick@RsLinux:~$ ls -lA ~ | grep '^d' | wc -l >> file_report.txt
roderick@RsLinux:~$ tail -n 10 file_report.txt
All files in my home directory
access.log,.bash_aliases,.bash_history,.bash_logout,.bashrc,.cache,cis106,cis106.zip,.config,Desktop,Documents,.dotnet,Downloads,.face,.face.icon,file_report.txt,file.txt,.fonts,.gitconfig,.gnupg,inClassActivity,in-class notes,In-class practice,lab5files,lab5files.zip,lab6-challenge1,lab6-challenge2,.local,marstenHouse,marstenhouse.sh,.mozilla,music,Music,Pictures,.pki,porfolio,portfolio,practicels,practicels.tar.xz,.profile,Public,scripts,snap,sorted_access_log_by_endpoint.log,sorted_access_log_by_username.log,.ssh,styles,sudo apt install bastet -y,.sudo_admin_successful,Templates,The difference in a variable.txt,Videos,.vscode,website,website_ch1_lab7,.wget-hsts,wildcardpractice,wildcards-in-class-activity-instructions.html,Total number of files in my home directory
21
Total number of directories in my home directory
36
roderick@RsLinux:~$ |
```

Question 3

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
roderick@RsLinux:~$ awk -F: '{print $1}' /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
_apt
nobody
systemd-network
dhcpd
tss
systemd-timesync
messagebus
```

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
roderick
_flatpak
roderick@RsLinux:~$ awk -F: '{print $1, $7}' /etc/passwd
root /bin/bash
daemon /usr/sbin/nologin
bin /usr/sbin/nologin
sys /usr/sbin/nologin
sync /bin/sync
games /usr/sbin/nologin
man /usr/sbin/nologin
lp /usr/sbin/nologin
mail /usr/sbin/nologin
news /usr/sbin/nologin
uucp /usr/sbin/nologin
proxy /usr/sbin/nologin
www-data /usr/sbin/nologin
backup /usr/sbin/nologin
list /usr/sbin/nologin
irc /usr/sbin/nologin
_apt /usr/sbin/nologin
nobody /usr/sbin/nologin
systemd-network /usr/sbin/nologin
dhcpd /bin/false
tss /bin/false
```

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
roderick /bin/bash
_flatpak /usr/sbin/nologin
roderick@RsLinux:~$ awk -F: '{print $1, $7, $6}' /etc/passwd
root /bin/bash /root
daemon /usr/sbin/nologin /usr/sbin
bin /usr/sbin/nologin /bin
sys /usr/sbin/nologin /dev
sync /bin/sync /bin
games /usr/sbin/nologin /usr/games
man /usr/sbin/nologin /var/cache/man
lp /usr/sbin/nologin /var/spool/lpd
mail /usr/sbin/nologin /var/mail
news /usr/sbin/nologin /var/spool/news
uucp /usr/sbin/nologin /var/spool/uucp
proxy /usr/sbin/nologin /bin
www-data /usr/sbin/nologin /var/www
backup /usr/sbin/nologin /var/backups
list /usr/sbin/nologin /var/list
irc /usr/sbin/nologin /run/ircd
_apt /usr/sbin/nologin /nonexistent
nobody /usr/sbin/nologin /nonexistent
systemd-network /usr/sbin/nologin /
dhcpd /bin/false /usr/lib/dhcpd
tss /bin/false /var/lib/tpm
```

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
roderick@RsLinux:~$ awk -F: '{print "The user:", $1, "logs in with:", $7, "and i
s home dir is:", $6}' /etc/passwd
The user: root logs in with: /bin/bash and is home dir is: /root
The user: daemon logs in with: /usr/sbin/nologin and is home dir is: /usr/sbin
The user: bin logs in with: /usr/sbin/nologin and is home dir is: /bin
The user: sys logs in with: /usr/sbin/nologin and is home dir is: /dev
The user: sync logs in with: /bin/sync and is home dir is: /bin
The user: games logs in with: /usr/sbin/nologin and is home dir is: /usr/games
The user: man logs in with: /usr/sbin/nologin and is home dir is: /var/cache/man
The user: lp logs in with: /usr/sbin/nologin and is home dir is: /var/spool/lpd
The user: mail logs in with: /usr/sbin/nologin and is home dir is: /var/mail
The user: news logs in with: /usr/sbin/nologin and is home dir is: /var/spool/ne
ws
The user: uucp logs in with: /usr/sbin/nologin and is home dir is: /var/spool/uu
cp
The user: proxy logs in with: /usr/sbin/nologin and is home dir is: /bin
The user: www-data logs in with: /usr/sbin/nologin and is home dir is: /var/www
The user: backup logs in with: /usr/sbin/nologin and is home dir is: /var/backu
p
The user: list logs in with: /usr/sbin/nologin and is home dir is: /var/list
The user: irc logs in with: /usr/sbin/nologin and is home dir is: /run/ircd
The user: _apt logs in with: /usr/sbin/nologin and is home dir is: /nonexistent
The user: nobody logs in with: /usr/sbin/nologin and is home dir is: /nonexisten
t
```



```
1/1 v + [ ] [ ] Tilix: roderick@RsLinux: ~ [ ] [ ] [ ] [ ]
1: roderick@RsLinux: ~ v [ ] [ ] [ ]
ent
roderick@RsLinux:~$ awk -F: '{print "The user:", $1, "logs in with:", $7, "and i
s home dir is:", $6}' /etc/passwd > report_users.txt
roderick@RsLinux:~$ grep '/bin/bash' /etc/passwd | awk -F: '{print $1 " = " $7}'
>> report_users.txt
roderick@RsLinux:~$ cat report_users.txt
The user: root logs in with: /bin/bash and is home dir is: /root
The user: daemon logs in with: /usr/sbin/nologin and is home dir is: /usr/sbin
The user: bin logs in with: /usr/sbin/nologin and is home dir is: /bin
The user: sys logs in with: /usr/sbin/nologin and is home dir is: /dev
The user: sync logs in with: /bin/sync and is home dir is: /bin
The user: games logs in with: /usr/sbin/nologin and is home dir is: /usr/games
The user: man logs in with: /usr/sbin/nologin and is home dir is: /var/cache/man
The user: lp logs in with: /usr/sbin/nologin and is home dir is: /var/spool/lpd
The user: mail logs in with: /usr/sbin/nologin and is home dir is: /var/mail
The user: news logs in with: /usr/sbin/nologin and is home dir is: /var/spool/ne
ws
The user: uucp logs in with: /usr/sbin/nologin and is home dir is: /var/spool/uu
cp
The user: proxy logs in with: /usr/sbin/nologin and is home dir is: /bin
The user: www-data logs in with: /usr/sbin/nologin and is home dir is: /var/www
The user: backup logs in with: /usr/sbin/nologin and is home dir is: /var/backup
s
The user: list logs in with: /usr/sbin/nologin and is home dir is: /var/list
```