

Lab9

Q1

```
Applications
Dec 9 11:59 AM
Tilix tdw@cis106-desktop: ~

tdw@cis106-desktop:~$ echo "All files in my home directory"
All files in my home directory
tdw@cis106-desktop:~$ echo "All files in my home directory" > file_report.txt
tdw@cis106-desktop:~$ ls
+
access.log      Documents      lab5files.zip  music          practicels.tar.xz  sorted_access_log_by_username.log  website
assets          Downloads     lab6-challenge1  Music          projectx           Templates                          website_ch1_lab7_completed
cis-106         essentials.sh  lab6-challenge2  myhomework    Public             todo.md                           websites
file           file_report.txt  labs            name           scripts            Videos                            wildcardpractice
cis106website   inClassActivity  marstenHouse    of             snap               vscode.sh                         wildcards-in-class-activity-instructions.html
colors          marstenhouse.sh  marstenhouse.sh  Pictures       snapshots          wallpapers                        wr5
Desktop         lab5files       marstenhouse.sh.1  practicels    sorted_access_log_by_endpoint.log  '~website'                        wr5.md

tdw@cis106-desktop:~$ ls -Am ~
+, access.log, assets, .bash_aliases, .bash_history, .bash_logout, .bashrc, .cache, cis-106, cis106website, colors, .config, Desktop, Documents, .dotnet, Downloads, .emacs.d, essentials.sh, .face, .face.icon, file, file_report.txt, .fonts, .gitconfig, .gnupg, inClassActivity, lab5files, lab5files.zip, lab6-challenge1, lab6-challenge2, labs, .local, marstenHouse, marstenhouse.sh, marstenhouse.sh.1, .mozilla, music, Music, myhomework, name, of, Pictures, .pki, practicels, practicels.tar.xz, .profile, projectx, Public, scripts, snap, snapshots, sorted_access_log_by_endpoint.log, sorted_access_log_by_username.log, .ssh, .sudo_as_admin_successful, Templates, todo.md, .vboxclient-clipboard-tty2-control.pid, .vboxclient-clipboard-tty2-service.pid, .vboxclient-draganddrop-tty2-control.pid, .vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid, .vboxclient-vmsvga-session-tty2-control.pid, .vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, vscode.sh, wallpapers, '~website', website, website_ch1_lab7_completed, websites, .wget-hsts, wildcardpractice, wildcards-in-class-activity-instructions.html, wr5, wr5.md
tdw@cis106-desktop:~$ ls -Am ~ >> file_report.txt
tdw@cis106-desktop:~$ cat file_report.txt
All files in my home directory
+, access.log, assets, .bash_aliases, .bash_history, .bash_logout, .bashrc, .cache, cis-106, cis106website, colors, .config, Desktop, Documents, .dotnet, Downloads, .emacs.d, essentials.sh, .face, .face.icon, file, file_report.txt, .fonts, .gitconfig, .gnupg, inClassActivity, lab5files, lab5files.zip, lab6-challenge1, lab6-challenge2, labs, .local, marstenHouse, marstenhouse.sh, marstenhouse.sh.1, .mozilla, music, Music, myhomework, name, of, Pictures, .pki, practicels, practicels.tar.xz, .profile, projectx, Public, scripts, snap, snapshots, sorted_access_log_by_endpoint.log, sorted_access_log_by_username.log, .ssh, .sudo_as_admin_successful, Templates, todo.md, .vboxclient-clipboard-tty2-control.pid, .vboxclient-clipboard-tty2-service.pid, .vboxclient-draganddrop-tty2-control.pid, .vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid, .vboxclient-vmsvga-session-tty2-control.pid, .vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, vscode.sh, wallpapers, '~website', website, website_ch1_lab7_completed, websites, .wget-hsts, wildcardpractice, wildcards-in-class-activity-instructions.html, wr5, wr5.md
```

Q2

```
Applications Dec 9 12:14 PM 21% 35% 0% 0.0 kB 0.0 kB
Tilix: tdw@cis106-desktop: ~

tdw@cis106-desktop:~$ echo "Total number of files in my home directory"
Total number of files in my home directory
tdw@cis106-desktop:~$ echo "Total number of files in my home directory" >> file_report.txt
tdw@cis106-desktop:~$ ls -Al
total 5992
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 +
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:06 access.log
drwxrwxr-x 4 tdw tdw 4096 Nov 18 19:16 assets
-rw-rw-r-- 1 tdw tdw 2731 Sep 24 18:57 .bash_aliases
-rw-r--r-- 1 tdw tdw 23096 Dec 9 12:06 .bash_history
-rw-r--r-- 1 tdw tdw 220 Sep 22 20:01 .bash_logout
-rw-r--r-- 1 tdw tdw 3678 Sep 24 18:57 .bashrc
drwxr--r-x 18 tdw tdw 4096 Oct 14 22:04 .cache
drwxrwxr-x 9 tdw tdw 4096 Nov 18 13:42 cis-106
drwxrwxr-x 3 tdw tdw 4096 Nov 25 12:32 cis106website
drwxrwxr-x 3 tdw tdw 4096 Oct 30 18:03 colors
drwxr--r-x 15 tdw tdw 4096 Nov 25 12:43 .config
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Desktop
drwxr-xr-x 5 tdw tdw 4096 Nov 25 14:09 Documents
drwxrwxr-x 3 tdw tdw 4096 Sep 26 19:25 .dotnet
drwxr-xr-x 3 tdw tdw 4096 Nov 25 22:08 Downloads
drwxr--r-x 4 tdw tdw 4096 Sep 23 12:35 .emacs.d
-rwxrwxr-x 1 tdw tdw 7747 Sep 24 12:30 essentials.sh
-rw-r--r-- 1 tdw tdw 5290 Sep 22 20:01 .face
lrwxrwxrwx 1 tdw tdw 5 Sep 22 20:01 .face.icon -> .face
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 file
-rw-rw-r-- 1 tdw tdw 1222 Dec 9 12:03 file_report.txt
drwxrwxr-x 2 tdw tdw 4096 Oct 8 19:20 .fonts
-rw-rw-r-- 1 tdw tdw 68 Sep 26 19:35 .gitconfig
drwxr--r-x 2 tdw tdw 4096 Dec 2 13:54 .gnupg
drwxrwxr-x 5 tdw tdw 4096 Nov 13 18:54 inclassActivity
drwxrwxr-x 2 tdw tdw 4096 Feb 22 20:22 lab5files
-rw-rw-r-- 1 tdw tdw 3570561 Oct 29 14:47 lab5files.zip
drwxrwxr-x 5 tdw tdw 4096 Nov 12 19:01 lab6-challenge1
drwxrwxr-x 3 tdw tdw 4096 Nov 18 12:29 lab6-challenge2
drwxrwxr-x 2 tdw tdw 4096 Nov 24 16:51 labs
drwxr--r-x 4 tdw tdw 4096 Sep 22 20:03 .local
drwxrwxr-x 3 tdw tdw 4096 Oct 31 19:31 marstenHouse
```

```
Applications Dec 9 12:14 PM 29% 36% 0% 0.0 kB 0.0 kB
Tilix: tdw@cis106-desktop: ~

-rw-rw-r-- 1 tdw tdw 3407 Oct 29 14:47 marstenhouse.sh
-rw-rw-r-- 1 tdw tdw 3407 Nov 12 13:30 marstenhouse.sh.1
drwxrwxr-x 5 tdw tdw 4096 Sep 24 18:44 mozilla
drwxrwxr-x 4 tdw tdw 4096 Nov 18 14:44 music
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Music
drwxrwxr-x 2 tdw tdw 4096 Nov 13 18:38 myhomework
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 name
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 of
drwxr-xr-x 4 tdw tdw 4096 Oct 22 18:46 Pictures
drwxr--r-x 3 tdw tdw 4096 Sep 26 19:51 .pkg
drwxrwxr-x 2 tdw tdw 4096 Feb 27 20:22 Practicels
-rw-rw-r-- 1 tdw tdw 2229212 Nov 6 15:35 practicels.tar.xz
-rw-rw-r-- 1 tdw tdw 807 Sep 22 20:01 .profile
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:13 projectx
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Public
drwxrwxr-x 2 tdw tdw 4096 Dec 5 19:50 scripts
drwxr--r-x 3 tdw tdw 4096 Oct 14 22:17 snap
drwxrwxr-x 4 tdw tdw 4096 Oct 30 18:00 snapshots
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:47 sorted_access_log_by_endpoint.log
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:34 sorted_access_log_by_username.log
drwxr--r-x 1 tdw tdw 4096 Sep 26 19:40 .ssh
-rw-rw-r-- 1 tdw tdw 0 Sep 23 12:39 .sudo_as_admin_successful
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Templates
-rw-rw-r-- 1 tdw tdw 41 Oct 8 19:28 todo.md
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-clipboard-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 5 Dec 9 11:32 .vboxclient-clipboard-tty2-service.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-draganddrop-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-hostversion-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-seamless-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-vmvga-session-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 5 Dec 9 11:32 .vboxclient-vmvga-session-tty2-service.pid
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Videos
drwxrwxr-x 4 tdw tdw 4096 Sep 26 19:52 .vscode
-rwxrwxr-x 1 tdw tdw 2501 Sep 25 15:05 vscode.sh
drwxrwxr-x 3 tdw tdw 4096 Nov 18 19:12 wallpapers
drwxrwxr-x 2 tdw tdw 4096 Nov 5 13:16 'website'
drwxrwxr-x 4 tdw tdw 4096 Nov 5 13:17 website
drwxrwxr-x 8 tdw tdw 4096 Nov 2 13:05 website.ch1 lab7 completed
```

```
Applications Dec 9 12:23 PM 10% 35% 0% 0.0 kB 0.0 kB
Tilix: tdw@cis106-desktop: ~

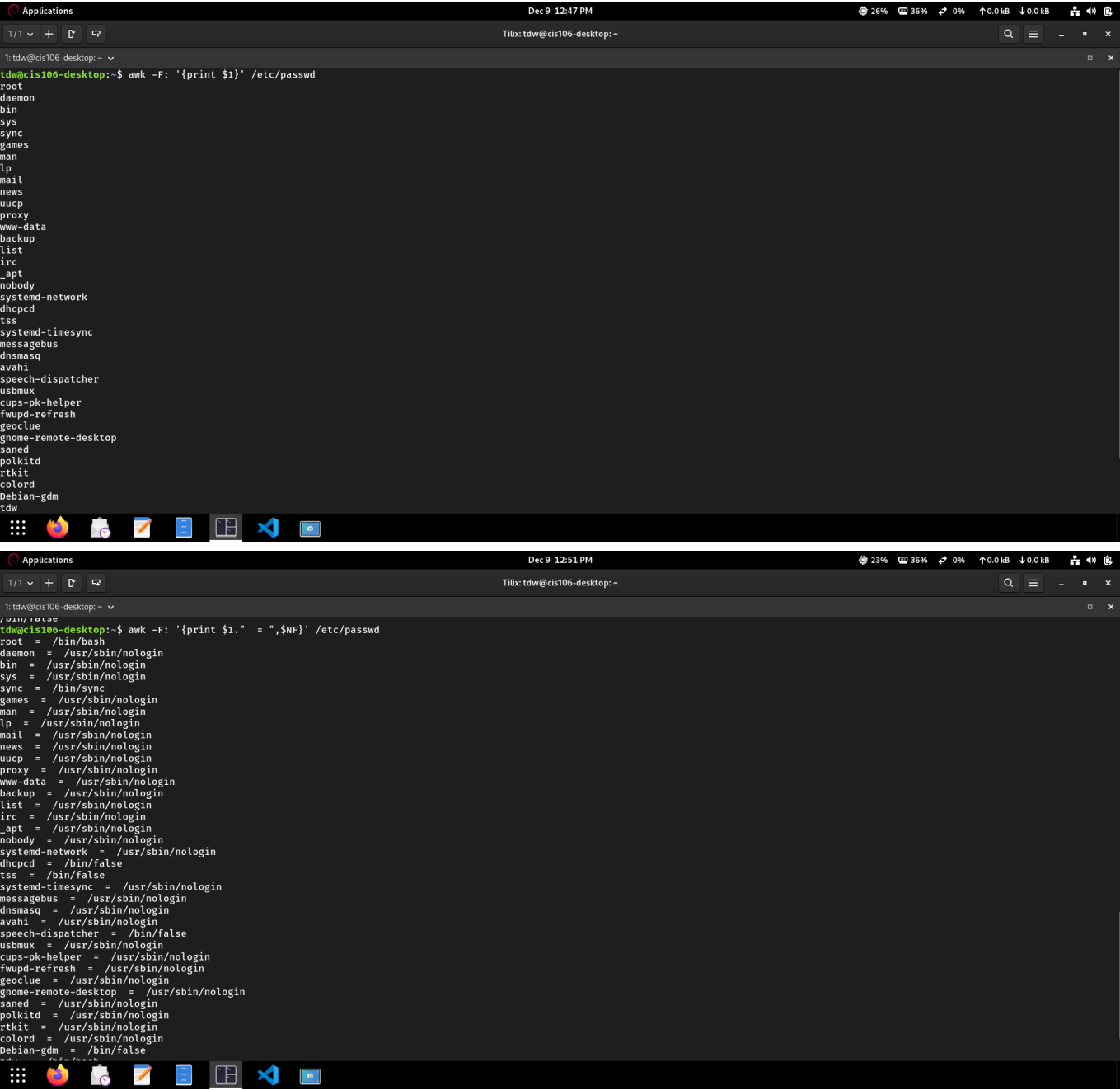
-rw-rw-r-- 1 tdw tdw 0 Nov 2 15:05 wr5.md
tdw@cis106-desktop:~$ ls -Al | grep '^-'
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 +
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:06 access.log
-rw-rw-r-- 1 tdw tdw 2731 Sep 24 18:57 .bash_aliases
-rw-r--r-- 1 tdw tdw 23109 Dec 9 12:13 .bash_history
-rw-r--r-- 1 tdw tdw 220 Sep 22 20:01 .bash_logout
-rw-rw-r-- 1 tdw tdw 3678 Sep 24 18:57 .bashrc
-rwxrwxr-x 1 tdw tdw 7747 Sep 24 12:30 essentials.sh
-rw-rw-r-- 1 tdw tdw 5290 Sep 22 20:01 .face
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 file
-rw-rw-r-- 1 tdw tdw 1222 Dec 9 12:03 file_report.txt
-rw-rw-r-- 1 tdw tdw 68 Sep 26 19:35 .gitconfig
-rw-rw-r-- 1 tdw tdw 3570561 Oct 29 14:47 lab5files.zip
-rw-rw-r-- 1 tdw tdw 3407 Oct 29 14:47 marstenhouse.sh
-rw-rw-r-- 1 tdw tdw 3407 Nov 12 13:30 marstenhouse.sh.1
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 name
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 of
-rw-rw-r-- 1 tdw tdw 2229212 Nov 6 15:35 practicels.tar.xz
-rw-rw-r-- 1 tdw tdw 807 Sep 22 20:01 .profile
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:13 projectx
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:47 sorted_access_log_by_endpoint.log
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:34 sorted_access_log_by_username.log
-rw-rw-r-- 1 tdw tdw 0 Sep 23 12:39 .sudo_as_admin_successful
-rw-rw-r-- 1 tdw tdw 41 Oct 8 19:28 todo.md
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-clipboard-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 5 Dec 9 11:32 .vboxclient-clipboard-tty2-service.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-draganddrop-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-hostversion-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-seamless-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 6 Dec 9 11:32 .vboxclient-vmvga-session-tty2-control.pid
-rw-rw-r-- 1 tdw tdw 5 Dec 9 11:32 .vboxclient-vmvga-session-tty2-service.pid
-rwxrwxr-x 1 tdw tdw 2501 Sep 25 15:05 vscode.sh
-rw-rw-r-- 1 tdw tdw 262 Nov 19 18:44 .wget-hsts
-rw-rw-r-- 1 tdw tdw 25198 Nov 13 17:58 wildcards-in-class-activity-instructions.html
-rw-rw-r-- 1 tdw tdw 0 Nov 2 15:05 wr5.md
tdw@cis106-desktop:~$
```

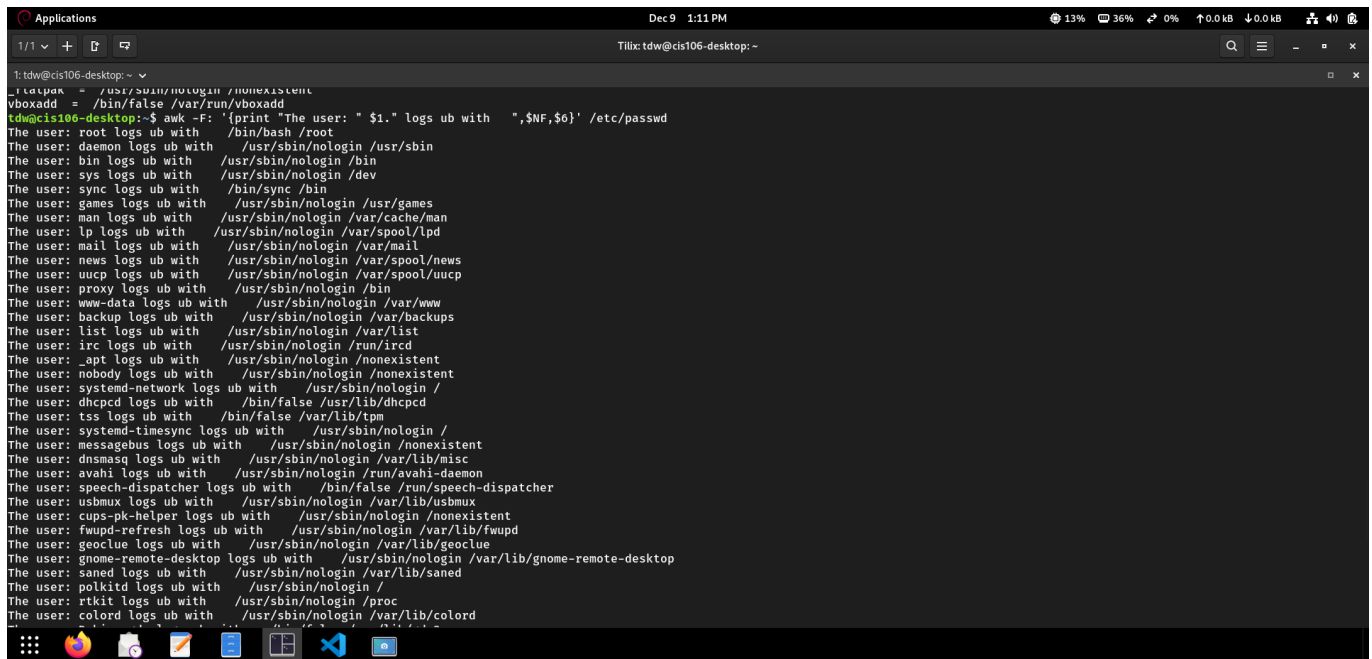
```
Applications Dec 9 12:34 PM 38% 36% 0% 0.0 kB 0.0 kB
Tilix:tdw@cis106-desktop: ~
tdw@cis106-desktop:~$ ls -l
total 5992
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 +
-rw-rw-r-- 1 tdw tdw 4061 Dec 2 19:06 access.log
drwxrwxr-x 4 tdw tdw 4096 Nov 18 19:16 assets
-rw-rw-r-- 1 tdw tdw 2731 Sep 24 18:57 .bash_aliases
-rw-rw-r-- 1 tdw tdw 23109 Dec 9 12:13 .bash_history
-rw-rw-r-- 1 tdw tdw 220 Sep 22 20:01 .bash_logout
-rw-rw-r-- 1 tdw tdw 3078 Sep 24 18:57 .bashrc
drwxrwxr-x 18 tdw tdw 4096 Oct 14 22:04 .cache
drwxrwxr-x 9 tdw tdw 4096 Nov 18 13:42 cis-106
drwxrwxr-x 3 tdw tdw 4096 Nov 25 12:32 cis106website
drwxrwxr-x 3 tdw tdw 4096 Oct 30 18:03 colors
drwxrwxr-x 15 tdw tdw 4096 Nov 25 12:43 .config
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Desktop
drwxr-xr-x 5 tdw tdw 4096 Nov 25 14:09 Documents
drwxrwxr-x 3 tdw tdw 4096 Sep 26 19:25 .dotnet
drwxr-xr-x 3 tdw tdw 4096 Nov 25 22:08 Downloads
drwxrwxr-x 4 tdw tdw 4096 Sep 23 12:35 .emacs.d
drwxrwxr-x 1 tdw tdw 7747 Sep 24 12:30 essentials.sh
-rw-rw-r-- 1 tdw tdw 5290 Sep 22 20:01 .face
lrwxrwxrwx 1 tdw tdw 5 Sep 22 20:01 .face.icon -> .face
-rw-rw-r-- 1 tdw tdw 0 Oct 30 18:12 file
-rw-rw-r-- 1 tdw tdw 1274 Dec 9 12:31 file_report.txt
drwxrwxr-x 2 tdw tdw 4096 Oct 8 19:20 .fonts
-rw-rw-r-- 1 tdw tdw 68 Sep 26 19:35 .gitconfig
drwxrwxr-x 2 tdw tdw 4096 Dec 2 13:54 .gnupg
drwxrwxr-x 5 tdw tdw 4096 Nov 13 18:54 inClassActivity
drwxrwxr-x 2 tdw tdw 4096 Feb 22 2022 lab5files
-rw-rw-r-- 1 tdw tdw 3570561 Oct 29 14:47 lab5files.zip
drwxrwxr-x 5 tdw tdw 4096 Nov 13 18:03 lab6_challenge1
```

```
Applications Dec 9 12:37 PM 10% 36% 0% 0.0 kB 0.0 kB
Tilix:tdw@cis106-desktop: ~
tdw@cis106-desktop:~$ ls -l
total 5992
-rw-rw-r-- 1 tdw tdw 0 Nov 2 15:05 wr5
-rw-rw-r-- 1 tdw tdw 0 Nov 2 15:05 wr5.md
drwxrwxr-x 4 tdw tdw 4096 Nov 18 19:16 assets
drwxrwxr-x 18 tdw tdw 4096 Oct 14 22:04 .cache
drwxrwxr-x 9 tdw tdw 4096 Nov 18 13:42 cis-106
drwxrwxr-x 3 tdw tdw 4096 Nov 25 12:32 cis106website
drwxrwxr-x 3 tdw tdw 4096 Oct 30 18:03 colors
drwxrwxr-x 15 tdw tdw 4096 Nov 25 12:43 .config
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Desktop
drwxr-xr-x 5 tdw tdw 4096 Nov 25 14:09 Documents
drwxrwxr-x 3 tdw tdw 4096 Sep 26 19:25 .dotnet
drwxr-xr-x 3 tdw tdw 4096 Nov 25 22:08 Downloads
drwxrwxr-x 4 tdw tdw 4096 Sep 23 12:35 .emacs.d
drwxrwxr-x 2 tdw tdw 4096 Oct 8 19:20 .fonts
drwxrwxr-x 2 tdw tdw 4096 Dec 2 13:54 .gnupg
drwxrwxr-x 5 tdw tdw 4096 Nov 13 18:54 inClassActivity
drwxrwxr-x 2 tdw tdw 4096 Feb 22 2022 lab5files
drwxrwxr-x 5 tdw tdw 4096 Nov 12 19:01 lab6_challenge1
drwxrwxr-x 3 tdw tdw 4096 Nov 18 12:29 lab6_challenge2
drwxrwxr-x 2 tdw tdw 4096 Nov 24 16:51 labs
drwxrwxr-x 4 tdw tdw 4096 Sep 22 20:03 .local
drwxrwxr-x 3 tdw tdw 4096 Oct 31 19:31 marstenHouse
drwxrwxr-x 5 tdw tdw 4096 Sep 24 18:48 .mozilla
drwxrwxr-x 4 tdw tdw 4096 Nov 18 14:44 music
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Music
drwxrwxr-x 2 tdw tdw 4096 Nov 13 18:38 myhomework
drwxr-xr-x 4 tdw tdw 4096 Oct 22 18:46 Pictures
drwxrwxr-x 3 tdw tdw 4096 Sep 26 19:51 .pkg
drwxrwxr-x 2 tdw tdw 4096 Feb 27 2022 practicles
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Public
drwxrwxr-x 2 tdw tdw 4096 Dec 5 19:50 scripts
drwxrwxr-x 3 tdw tdw 4096 Oct 14 22:17 snap
drwxrwxr-x 4 tdw tdw 4096 Oct 30 18:00 snapshots
drwxrwxr-x 2 tdw tdw 4096 Sep 26 19:40 .ssh
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Templates
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Videos
drwxrwxr-x 4 tdw tdw 4096 Sep 24 18:03 wallpaper
```

```
Applications Dec 9 12:42 PM 18% 36% 0% 0.0 kB 0.0 kB
Tilix:tdw@cis106-desktop: ~
tdw@cis106-desktop:~$ ls -l
total 5992
-rw-rw-r-- 1 tdw tdw 4096 Sep 22 20:03 Music
drwxr-xr-x 2 tdw tdw 4096 Nov 13 18:38 myhomework
drwxr-xr-x 4 tdw tdw 4096 Oct 22 18:46 Pictures
drwxrwxr-x 3 tdw tdw 4096 Sep 26 19:51 .pkg
drwxrwxr-x 2 tdw tdw 4096 Feb 27 2022 practicles
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Public
drwxrwxr-x 2 tdw tdw 4096 Dec 5 19:50 scripts
drwxrwxr-x 3 tdw tdw 4096 Oct 14 22:17 snap
drwxrwxr-x 4 tdw tdw 4096 Oct 30 18:00 snapshots
drwxrwxr-x 2 tdw tdw 4096 Sep 26 19:40 .ssh
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Templates
drwxr-xr-x 2 tdw tdw 4096 Sep 22 20:03 Videos
drwxrwxr-x 4 tdw tdw 4096 Sep 26 19:52 .vscode
drwxrwxr-x 3 tdw tdw 4096 Nov 18 19:12 wallpapers
drwxrwxr-x 2 tdw tdw 4096 Nov 5 13:16 ~website
drwxrwxr-x 4 tdw tdw 4096 Nov 5 13:17 website
drwxrwxr-x 8 tdw tdw 4096 Dec 2 13:05 website_ch1_lab7_completed
drwxrwxr-x 3 tdw tdw 4096 Nov 4 21:41 websites
drwxrwxr-x 2 tdw tdw 4096 Nov 17 12:50 wildcardpractice
drwxrwxr-x 2 tdw tdw 4096 Nov 2 15:02 wr5
tdw@cis106-desktop:~$ ls -l ~ | grep '^d' | wc -l
42
tdw@cis106-desktop:~$ tail file_report.txt
^C
tdw@cis106-desktop:~$ tail file_report.txt
.vboxclient-draganddrop-tty2-control.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-vmtoolsd-session-tty2-control.pid,
.vboxclient-vmtoolsd-session-tty2-service.pid, vscodes, vscodes.sh,
wallpapers, ~website, website, website_ch1_lab7_completed, websites, wget-hsts,
wildcardpractice, wildcards-in-class-activity-instructions.html, wr5, wr5.md
Total number of files in my home directory
34
Total number of directories in my home directory
42
tdw@cis106-desktop:~$
```

Q3





```
Applications Dec 9 1:11 PM 13% 36% 0% 0.0kB 0.0kB TiliX: tdtw@cis106-desktop: ~
1/1 + [ ] [ ]
tdtw@cis106-desktop: ~
catpax = /usr/sbin/nologin /nonexistent
vboxadd = /bin/false /var/run/vboxadd
tdtw@cis106-desktop:~$ awk -F: '{print "The user: " $1." logs ub with " ,,$NF,$0}' /etc/passwd
The user: root logs ub with /bin/bash /root
The user: daemon logs ub with /usr/sbin/nologin /usr/sbin
The user: bin logs ub with /usr/sbin/nologin /bin
The user: sys logs ub with /usr/sbin/nologin /dev
The user: sync logs ub with /bin/sync /bin
The user: games logs ub with /usr/sbin/nologin /usr/games
The user: man logs ub with /usr/sbin/nologin /var/cache/man
The user: lp logs ub with /usr/sbin/nologin /var/spool/lpd
The user: mail logs ub with /usr/sbin/nologin /var/mail
The user: news logs ub with /usr/sbin/nologin /var/spool/news
The user: uuwp logs ub with /usr/sbin/nologin /var/spool/uuwp
The user: proxy logs ub with /usr/sbin/nologin /bin
The user: www-data logs ub with /usr/sbin/nologin /var/www
The user: backup logs ub with /usr/sbin/nologin /var/backups
The user: list logs ub with /usr/sbin/nologin /var/list
The user: irc logs ub with /usr/sbin/nologin /run/ircd
The user: apt logs ub with /usr/sbin/nologin /nonexistent
The user: nobody logs ub with /usr/sbin/nologin /nonexistent
The user: systemd-network logs ub with /usr/sbin/nologin /
The user: dhcpcd logs ub with /bin/false /usr/lib/dhcpcd
The user: tss logs ub with /bin/false /var/lib/tpm
The user: systemd-timesync logs ub with /usr/sbin/nologin /
The user: messagebus logs ub with /usr/sbin/nologin /nonexistent
The user: dnsmasq logs ub with /usr/sbin/nologin /var/lib/misc
The user: avahi logs ub with /usr/sbin/nologin /run/avahi-daemon
The user: speech-dispatcher logs ub with /bin/false /run/speech-dispatcher
The user: usbmux logs ub with /usr/sbin/nologin /var/lib/usbmux
The user: cups-pk-helper logs ub with /usr/sbin/nologin /nonexistent
The user: fwupd-refresh logs ub with /usr/sbin/nologin /var/lib/fwupd
The user: geoclue logs ub with /usr/sbin/nologin /var/lib/geoclue
The user: gnome-remote-desktop logs ub with /usr/sbin/nologin /var/lib/gnome-remote-desktop
The user: saned logs ub with /usr/sbin/nologin /var/lib/saned
The user: polkitd logs ub with /usr/sbin/nologin /
The user: rtkit logs ub with /usr/sbin/nologin /proc
The user: colord logs ub with /usr/sbin/nologin /var/lib/colord
```

Q4

```
Applications Dec 9 1:57 PM 3% 40% 0% 0.0 kB 0.0 kB
1/1 + [ ]
Tilix:tdw@cis106-desktop: ~/cis-106/labs/lab9


tdw@cis106-desktop:~/cis-106/labs/lab9$ head -1 ~/Documents/sample_files/Csv/cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
tdw@cis106-desktop:~/cis-106/labs/lab9$ grep -i "honda" ~/Documents/sample_files/csv/cars.csv >
> honda1.csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ sed 's/;/,/g' honda1.csv
Car,MPG,Cylinders,Displacement,Horsepower,Weight,Acceleration,Model,Origin
Honda Civic,24.0,4,120.0,97.00,2489.,15.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,1795.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,2045.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,1800.,16.4,78,Japan
Honda Accord LX,29.5,4,98.00,68.00,2135.,16.6,78,Japan
Honda Civic 1500 gl,44.6,4,91.00,67.00,1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,17.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,1760.,16.1,81,Japan
Honda Prelude,33.7,4,107.0,75.00,2210.,14.4,81,Japan
Honda Accord,36.0,4,107.0,75.00,2205.,14.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1965.,15.7,82,Japan
Honda Civic,24.0,4,120.0,97.00,2489.,15.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,1795.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,2045.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,1800.,16.4,78,Japan
Honda Accord LX,29.5,4,98.00,68.00,2135.,16.6,78,Japan
Honda Civic 1500 gl,44.6,4,91.00,67.00,1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,17.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,1760.,16.1,81,Japan
Honda Prelude,33.7,4,107.0,75.00,2210.,14.4,81,Japan
Honda Accord,36.0,4,107.0,75.00,2205.,14.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1965.,15.7,82,Japan
tdw@cis106-desktop:~/cis-106/labs/lab9$
```

```
Applications Dec 9 1:34 PM 23% 40% 0% 0.0 kB 0.0 kB
1/1 + [ ]
Tilix:tdw@cis106-desktop: ~

tdw@cis106-desktop:~/cis-106/labs/lab9$ head -1 ~/Documents/sample_files/Csv/cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
tdw@cis106-desktop:~/cis-106/labs/lab9$ head -1 ~/Documents/sample_files/Csv/cars.csv > honda1.
csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ 
tdw@cis106-desktop:~/Documents/sample_files/Csv$ cat cis-106/labs/lab9/honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
tdw@cis106-desktop:~/Documents/sample_files/Csv$
```

```
Applications Dec 9 2:19 PM 14% 39% 0% 0.0 kB 0.0 kB
1/1 + [ ]
Tilix:tdw@cis106-desktop: ~/Documents/sample_files/Csv

tdw@cis106-desktop:~/cis-106/labs/lab9$ grep -i "honda" ~/Documents/sample_files/Csv/cars.csv >
honda1.csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ head -1 ~/Documents/sample_files/Csv/cars.csv > honda1.
csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
tdw@cis106-desktop:~/cis-106/labs/lab9$ grep -i "honda" ~/Documents/sample_files/Csv/cars.cs >>
honda1.csv
grep: /home/tdw/Documents/sample_files/csv/cars.cs: No such file or directory
tdw@cis106-desktop:~/cis-106/labs/lab9$ grep -i "honda" ~/Documents/sample_files/Csv/cars.csv >
> honda1.csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ sed 's/;/,/g' honda1.csv
Car,MPG,Cylinders,Displacement,Horsepower,Weight,Acceleration,Model,Origin
Honda Civic,24.0,4,120.0,97.00,2489.,15.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,1795.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,2045.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,1800.,16.4,78,Japan
Honda Accord LX,29.5,4,98.00,68.00,2135.,16.6,78,Japan
Honda Civic 1500 gl,44.6,4,91.00,67.00,1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,17.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,1760.,16.1,81,Japan
Honda Prelude,33.7,4,107.0,75.00,2210.,14.4,81,Japan
Honda Accord,36.0,4,107.0,75.00,2205.,14.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1965.,15.7,82,Japan
tdw@cis106-desktop:~/cis-106/labs/lab9$ sed 's/;/,/g' honda1.csv > honda2.csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ 
tdw@cis106-desktop:~/Documents/sample_files/Csv$ ls
cars.csv  contacts.csv  fake_users.csv  users_and_ips.csv
cereal.csv  country.csv  sorted_cars.csv
tdw@cis106-desktop:~/Documents/sample_files/Csv$ cat ~/cis-106/labs/lab9/honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
Honda Civic,24.0,4,120.0,97.00,2489.,15.0,74,Japan
Honda Civic CVCC,33.0,4,91.00,53.00,1795.,17.5,75,Japan
Honda Civic,33.0,4,91.00,53.00,1795.,17.4,76,Japan
Honda Accord CVCC,31.5,4,98.00,68.00,2045.,18.5,77,Japan
Honda Civic CVCC,36.1,4,91.00,60.00,1800.,16.4,78,Japan
Honda Accord LX,29.5,4,98.00,68.00,2135.,16.6,78,Japan
Honda Civic 1500 gl,44.6,4,91.00,67.00,1850.,13.8,80,Japan
Honda Accord,32.4,4,107.0,72.00,2290.,17.0,80,Japan
Honda Civic 1300,35.1,4,81.00,60.00,1760.,16.1,81,Japan
Honda Prelude,33.7,4,107.0,75.00,2210.,14.4,81,Japan
Honda Accord,36.0,4,107.0,75.00,2205.,14.5,82,Japan
Honda Civic,38.0,4,91.00,67.00,1965.,15.0,82,Japan
Honda Civic (auto),32.0,4,91.00,67.00,1965.,15.7,82,Japan
tdw@cis106-desktop:~/Documents/sample_files/Csv$
```



Applications

Dec 9 2:40 PM

38% 41% 0% 0.0 kB 0.0 kB

Tilix: tdw@cis106-desktop: ~/cis-106/labs/lab9

1: tdw@cis106-desktop: ~/cis-106/labs/lab9

```
tdw@cis106-desktop:~/cis-106/labs/lab9$ awk -F"," '{print $1,$3,$5}' honda2.csv | sed "s/ , /,/g" | sed "s/Honda /Honda_/g"
Car cylinders Horsepower
Honda Civic 4 97.00
Honda Civic CVCC 4 53.00
Honda Civic 4 53.00
Honda Accord CVCC 4 68.00
Honda Civic CVCC 4 60.00
Honda Accord LX 4 68.00
Honda Civic 1500 gl 4 67.00
Honda Accord 4 72.00
Honda Civic 1300 4 60.00
Honda Prelude 4 75.00
Honda Accord 4 75.00
Honda Civic 4 67.00
Honda Civic (auto) 4 67.00
tdw@cis106-desktop:~/cis-106/labs/lab9$ awk -F"," '{print $1,$3,$5}' honda2.csv | sed "s/ , /,/g" | sed "s/Honda /Honda_/g" >> honda3.csv
tdw@cis106-desktop:~/cis-106/labs/lab9$ batcat honda3.csv
```

File: honda3.csv

1	model,cylinders,hp
2	Car cylinders Horsepower
3	Honda Civic 4 97.00
4	Honda Civic CVCC 4 53.00
5	Honda Civic 4 53.00
6	Honda Accord CVCC 4 68.00
7	Honda Civic CVCC 4 60.00
8	Honda Accord LX 4 68.00
9	Honda Civic 1500 gl 4 67.00
10	Honda Accord 4 72.00
11	Honda Civic 1300 4 60.00
12	Honda Prelude 4 75.00
13	Honda Accord 4 75.00
14	Honda Civic 4 67.00
15	Honda Civic (auto) 4 67.00

```
tdw@cis106-desktop:~/cis-106/labs/lab9$
```

