

Lab6: File Globbing/wildcards

Question 1

```
menna@c1s106:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/debconf.conf    /etc/hdparm.conf     /etc/libao.conf       /etc/mke2fs.conf     /etc/request-key.conf /etc/sensors3.conf   /etc/uniconf.conf     /etc/xattr.conf
/etc/app.conf          /etc/deluser.conf    /etc/host.conf        /etc/libao.conf       /etc/mke2fs.conf     /etc/request-key.conf /etc/sensors3.conf   /etc/uniconf.conf     /etc/xattr.conf
/etc/appstream.conf    /etc/fuse.conf        /etc/kernel-img.conf /etc/locales.conf     /etc/netscsid.conf   /etc/resolv.conf      /etc/sudo.conf       /etc/usb_modeswitch.conf
/etc/ca-certificates.conf /etc/gai.conf         /etc/kernelloops.conf /etc/logrotate.conf   /etc/pam.conf         /etc/rygel.conf       /etc/sysctl.conf      /etc/wdm.conf
/etc/debconf.conf      /etc/hdparm.conf     /etc/ld.so.conf       /etc/ltrace.conf      /etc/pnm2ppa.conf    /etc/sddm.conf        /etc/ucf.conf         /etc/wdial.conf

menna@c1s106:~$ ls -lGhs --time-style=%D /etc/h*.conf /etc/p*.conf
8.0K -rw-r--r-- 1 4.4K 12/15/20 /etc/hdparm.conf
4.0K -rw-r--r-- 1 92 07/28/20 /etc/host.conf
4.0K -rw-r--r-- 1 552 08/11/20 /etc/pam.conf
8.0K -rw-r--r-- 1 7.5K 10/12/21 /etc/pnm2ppa.conf

menna@c1s106:~$ find /usr/share/themes/ -type f -name *.theme
/usr/share/themes/Arc/plank/dock.theme
/usr/share/themes/Arc/index.theme
/usr/share/themes/Adwaita/index.theme
/usr/share/themes/Arc-Dark/plank/dock.theme
/usr/share/themes/Arc-Dark/index.theme
/usr/share/themes/Arc-Darker/plank/dock.theme
/usr/share/themes/Arc-Darker/index.theme
/usr/share/themes/HighContrast/index.theme
/usr/share/themes/Arc-Lighter/plank/dock.theme
/usr/share/themes/Adwaita-dark/index.theme

menna@c1s106:~$ ls lab6/*.log
lab6/88_Application-Log.log  lab6/apache22.log  lab6/dpkg.log  lab6/history.log  lab6/make.log  lab6/unattended-upgrades-shutdown.log
lab6/alternatives.log      lab6/auth.log      lab6/frontconf.log  lab6/httpd404.log  lab6/sddm.log  lab6/wdialconf.log
lab6/apache01-error.log    lab6/backup.log    lab6/gpu-manager.log  lab6/kern.log      lab6/term.log  lab6/Xorg.0.log

menna@c1s106:~$ mkdir lab6/log-files
menna@c1s106:~$ mv lab6/*.log lab6/log-files/
menna@c1s106:~$
```

Question 2

```
menna@c1s106:~$ ls -A lab6/??*
lab6/.appveyor.yml  lab6/.directory  lab6/.eslintrc.yml  lab6/.jscs.json  lab6/.nycrc  lab6/.tm_properties  lab6/.Xauthority
lab6/.auto-changelog  lab6/.dir-locals.el  lab6/.gitattributes  lab6/.jscsrc  lab6/.padding  lab6/.tonic_example.js  lab6/.xscreensaver
lab6/.bash_history  lab6/.editorconfig  lab6/.gitconfig  lab6/.jshintignore  lab6/.parentlock  lab6/.travis.yml  lab6/.xsession-errors
lab6/.bash_logout  lab6/.envrc  lab6/.gitignore  lab6/.jshintrc  lab6/.prettierrc  lab6/.vboxclient-clipboard.pid
lab6/.bashrc  lab6/.eslintignore  lab6/.gitkeep  lab6/.keep  lab6/.prettierrc.yaml  lab6/.vboxclient-display-svga-x11.pid
lab6/.changed  lab6/.eslintrc  lab6/.gitmodules  lab6/.metadatas-v2  lab6/.profile  lab6/.vboxclient-draganddrop.pid
lab6/.coveralls.yml  lab6/.eslintrc.js  lab6/.htaccess  lab6/.min-wd  lab6/.sudo_as_admin_successful  lab6/.vboxclient-seamless.pid
lab6/.d95c848a-7662-4b60-8a0b-f9669c6ade66  lab6/.eslintrc.json  lab6/.istanbul.yml  lab6/.npmignore  lab6/.tern-project  lab6/.vsixmanifest

menna@c1s106:~$ ls -A lab6/*.*
lab6/file_00.sh  lab6/file_01.sh  lab6/file_02.sh  lab6/file_03.sh  lab6/file_04.sh  lab6/file_05.sh
lab6/lost.txt  lab6/lost.txt  lab6/lost.txt

menna@c1s106:~$ ls -A lab6/*.*
lab6/file_00.sh  lab6/file_01.sh  lab6/file_02.sh  lab6/file_03.sh  lab6/file_04.sh  lab6/file_05.sh

menna@c1s106:~$
```

Question 3

```
menna@c1s106:~$ ls lab6/[A-Z]*
lab6/Document.doc  lab6/Expenses.xls

menna@c1s106:~$ ls lab6/[A-Z0-9]*
lab6/25Games.lst  lab6/Document.doc  lab6/Expenses.xls

menna@c1s106:~$ ls lab6/*[0-9]*
lab6/25Games.lst  lab6/apache03.err  lab6/file_00.sh  lab6/file_01.sh  lab6/file_02.sh  lab6/file_03.sh  lab6/file_04.sh  lab6/file_05.sh  lab6/trip22-info.doc

menna@c1s106:~$ ls lab6/[a-z]*[0-9]*
lab6/apache03.err  lab6/file_00.sh  lab6/file_01.sh  lab6/file_02.sh  lab6/file_03.sh  lab6/file_04.sh  lab6/file_05.sh  lab6/trip22-info.doc

menna@c1s106:~$
```

Question 4

Problem 1

```
menna@cis106: ~/lab6
menna@cis106:~$ cd lab6/
menna@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
menna@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└──

4 directories, 0 files
menna@cis106:~/lab6$
```

Problem 2

```
menna@cis106: ~/lab6
menna@cis106:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
menna@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small

6 directories, 0 files
menna@cis106:~/lab6$
```

Problem 3

```
menna@cis106: ~/lab6
menna@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
menna@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
menna@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf

```

7 directories, 4 files

```
menna@cis106:~/lab6$
```

Problem 4

```
menna@cis106: ~/lab6
menna@cis106:~/lab6$ mkdir -p Research/{books/{math,science}/{epub,pdf},magazines/{computers,running,videogames}/{fanmade,official}}/
menna@cis106:~/lab6$ tree Research/
Research/
├── books
│   ├── math
│   │   ├── epub
│   │   └── pdf
│   └── science
│       ├── epub
│       └── pdf
└── magazines
    ├── computers
    │   ├── fanmade
    │   └── official
    ├── running
    │   ├── fanmade
    │   └── official
    └── videogames
        ├── fanmade
        └── official

```

17 directories, 0 files

```
menna@cis106:~/lab6$
```

Problem 5

```
File Actions Edit View Help
menna@cis106: /usr/share
menna@cis106:~$ mkdir lab6-q5
menna@cis106:~$ cd /
menna@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
menna@cis106:/$ cd usr/share/
menna@cis106:/usr/share$ mkdir ~/lab6-q5/movies
menna@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,mарel.txt,disney.doc}
menna@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv} ~/lab6-q5/movies/{disney.doc,mарel.txt}
menna@cis106:/usr/share$
```

Challenge Question

```
menna@c1s106: ~/challenge-Lab6
menna@c1s106:~$ curl https://c1s106.com/assets/lab6cq.sh | bash
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
100 170 100 170 0 0 825 0 --:--:-- --:--:-- --:--:-- 825
menna@c1s106:~$ cd challenge-Lab6/
menna@c1s106:~/challenge-Lab6$ mkdir -p audio/{aac,mp3}
menna@c1s106:~/challenge-Lab6$ mkdir -p docs/{docx,pdf,xls}
menna@c1s106:~/challenge-Lab6$ mkdir -p images/{jpeg,png}
menna@c1s106:~/challenge-Lab6$ ls
audio docs1.doc docs1.pdf docs2.docx docs3.doc docs3.pdf image1.jpg image2.gif image2.png image3.jpg images programs.py programs.sh song1.mp3 song2.mp3 song3.mp3
docs docs1.docx docs2.doc docs2.pdf docs3.docx image1.gif image1.png image2.jpg image3.gif image3.png programs.go programs.rb song1.aac song2.aac song3.aac
menna@c1s106:~/challenge-Lab6$ mv song1.aac song2.aac song3.aac audio/aac
menna@c1s106:~/challenge-Lab6$ mv song1.mp3 song2.mp3 song3.mp3 audio/mp3
menna@c1s106:~/challenge-Lab6$ mv docs1.doc docs2.doc docs3.doc docs1.docx docs2.docx docs3.docx docs/docx/
menna@c1s106:~/challenge-Lab6$ mv image1.jpg image2.jpg image3.jpg images/jpeg
menna@c1s106:~/challenge-Lab6$ mv image1.png image2.png image3.png images/png
menna@c1s106:~/challenge-Lab6$ mv docs1.pdf docs2.pdf docs3.pdf docs/pdf
menna@c1s106:~/challenge-Lab6$ ls
audio docs image1.gif image2.gif image3.gif images programs.go programs.py programs.rb programs.sh
menna@c1s106:~/challenge-Lab6$ mkdir -p programs
menna@c1s106:~/challenge-Lab6$ mv programs.go programs.py programs.rb programs.sh programs
menna@c1s106:~/challenge-Lab6$ mv image1.gif image2.gif image3.gif images/g
mv: target 'images/g' is not a directory
menna@c1s106:~/challenge-Lab6$ mv image1.gif image2.gif image3.gif images/gif
mv: target 'images/gif' is not a directory
menna@c1s106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   │   ├── song1.aac
│   │   ├── song2.aac
│   │   └── song3.aac
│   └── mp3
│       ├── song1.mp3
│       ├── song2.mp3
│       └── song3.mp3
├── docs
│   ├── docx
│   │   ├── docs1.doc
│   │   ├── docs1.docx
│   │   ├── docs2.doc
│   │   ├── docs2.docx
│   │   ├── docs3.doc
│   │   └── docs3.docx
│   ├── pdf
│   │   ├── docs1.pdf
│   │   ├── docs2.pdf
│   │   └── docs3.pdf
│   └── xls
├── image1.gif
├── image2.gif
├── image3.gif
└── images
```

```
menna@c1s106:~/challenge-Lab6
menna@c1s106:~/challenge-Lab6$ mkdir -p images/{gif}
menna@c1s106:~/challenge-Lab6$ mv programs.go programs.py programs.rb programs.sh programs
menna@c1s106:~/challenge-Lab6$ mv image1.gif image2.gif image3.gif images/g
mv: target 'images/g' is not a directory
menna@c1s106:~/challenge-Lab6$ mv image1.gif image2.gif image3.gif images/gif
mv: target 'images/gif' is not a directory
menna@c1s106:~/challenge-Lab6$ tree
.
├── audio
│   ├── aac
│   │   ├── song1.aac
│   │   ├── song2.aac
│   │   └── song3.aac
│   └── mp3
│       ├── song1.mp3
│       ├── song2.mp3
│       └── song3.mp3
├── docs
│   ├── docx
│   │   ├── docs1.doc
│   │   ├── docs1.docx
│   │   ├── docs2.doc
│   │   ├── docs2.docx
│   │   ├── docs3.doc
│   │   └── docs3.docx
│   ├── pdf
│   │   ├── docs1.pdf
│   │   ├── docs2.pdf
│   │   └── docs3.pdf
│   └── xls
├── image1.gif
├── image2.gif
├── image3.gif
├── images
│   ├── {gif}
│   ├── jpeg
│   │   ├── image1.jpg
│   │   ├── image2.jpg
│   │   └── image3.jpg
│   └── png
│       ├── image1.png
│       ├── image2.png
│       └── image3.png
└── programs
    ├── programs.go
    ├── programs.py
    ├── programs.rb
    └── programs.sh
12 directories, 28 files
```