Lab 5

Question 1

```
eli@cis106:~/wildcardpractice$ curl -s https://cis106.com/assets/scripts/wildcardpractice.sh | bash
--2025-12-05 21:46:24--  https://cis106.com/assets/logo100x100.png
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: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png'

logo100x100.png        100%[===============================>]   3.44K  --.-KB/s   i
n 0s

2025-12-05 21:46:24 (62.4 MB/s) - 'logo100x100.png' saved [3520/3520]

eli@cis106:~$ cd wildcardpractice/
eli@cis106:~/wildcardpractice$ ls *random*
_random.csv  random_text.md  randomtext.txt
eli@cis106:~/wildcardpractice$ ls *.csv *.txt
78food.txt  _random.csv  randomtext.txt  Sample1234.csv  sample123.csv
eli@cis106:~/wildcardpractice$ ls random*.md
random_text.md
eli@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx      sample.pdf
sample123.csv   sample1.xls  samplejsonfile.json  samplesite.html
eli@cis106:~/wildcardpractice$ _
```

PRACTICE 1: The * wildcard

1. Run This command from your home directory:

   `curl -s https://cis106.com/assets/scripts/wildcardpractice.sh | bash`

2. List all the files inside the **wildcardpractice** directory that contain the word "**random**" in the name.

3. List all the **csv** and **txt** files in the **wildcardpractice** directory.

4. List all the markdown files that start with the word "**random**"

5. List all the files that contain the word "**sample**" in the name and all the markdown files inside the **wildcardpractice** directory.

```
eli@cis106:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  book.exe
2022-02-02-camera.jpg   book.pdf
78food.txt              book.xml
allfiles.lst            fail.log
Allfiles.lst            file.log
baik.exe                logo100x100.png
baik.pdf                _random.csv
baik.xml                randomtext.txt
beatk.exe               Sample1234.csv
beatk.pdf               sample123.csv
beatk.xml               sample1.doc
bk.exe                  sample1.xls
bk.pdf                  sample.pdf
bk.xml                  Sample.pdf
eli@cis106:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.py   .hidden2.py
.hidden1.doc   .hidden2.doc  .hiddenFile.txt
eli@cis106:~/wildcardpractice$ cd
eli@cis106:~$ ls wildcardpractice/b??*.???
wildcardpractice/baik.exe
wildcardpractice/baik.pdf
wildcardpractice/baik.xml
wildcardpractice/beatk.exe
wildcardpractice/beatk.pdf
wildcardpractice/beatk.xml
wildcardpractice/book.exe
wildcardpractice/book.pdf
wildcardpractice/book.xml
eli@cis106:~$ ls wildcardpractice/sample?.*
wildcardpractice/sample1.doc
wildcardpractice/sample1.xls
eli@cis106:~$ ls wildcardpractice/.??*.??
wildcardpractice/.hidden1.py
wildcardpractice/.hidden2.py
```

Practice 2: ? Wildcard

1. List all the files in the **wildcardpractice** directory that have a 3 letter file extension.

2. List all the files in the **wildcardpractice** directory that are hidden.

3. List all the files in the **wildcardpractice** directory that start with letter b and have two characters following and a 3 letter file extension.

4. List all the files in the **wildcardpractice** directory that start with the word "sample" and has a single character before the file extension.

5. List all the files in the **wildcardpractice** directory that are hidden and have a 2 letter file extension.

```
eli@cis106:~$ ls wildcardpractice/[a-z]*.???
wildcardpractice/allfiles.lst  wildcardpractice/book.pdf
wildcardpractice/baik.exe       wildcardpractice/book.xml
wildcardpractice/baik.pdf       wildcardpractice/fail.log
wildcardpractice/baik.xml       wildcardpractice/file.log
wildcardpractice/beatk.exe      wildcardpractice/logo100x100.png
wildcardpractice/beatk.pdf      wildcardpractice/randomtext.txt
wildcardpractice/beatk.xml      wildcardpractice/sample123.csv
wildcardpractice/bk.exe         wildcardpractice/sample1.doc
wildcardpractice/bk.pdf         wildcardpractice/sample1.xls
wildcardpractice/bk.xml         wildcardpractice/sample.pdf
wildcardpractice/book.exe
eli@cis106:~$ ls wildcardpractice/[A-Z]*[0-9]*
wildcardpractice/Sample1234.csv
eli@cis106:~$ ls wildcardpractice/[0-9][0-9][0-9][0-9]*
wildcardpractice/2020-08-27-capture.raw   wildcardpractice/2022-02-02-camera.jpg
wildcardpractice/2021-04-10-screenshot.jpeg
eli@cis106:~$ ls wildcardpractice/[!AEIOUaeiou]*
wildcardpractice/2020-08-27-capture.raw   wildcardpractice/fail.log
wildcardpractice/2021-04-10-screenshot.jpeg  wildcardpractice/file.log
wildcardpractice/2022-02-02-camera.jpg    wildcardpractice/logo100x100.png
wildcardpractice/78food.txt               wildcardpractice/_random.csv
wildcardpractice/baik.exe                 wildcardpractice/random_text.md
wildcardpractice/baik.pdf                 wildcardpractice/randomtext.txt
wildcardpractice/baik.xml                 wildcardpractice/Sample1234.csv
wildcardpractice/beatk.exe                wildcardpractice/sample123.csv
wildcardpractice/beatk.pdf                wildcardpractice/sample1.doc
wildcardpractice/beatk.xml                wildcardpractice/sample1.xls
wildcardpractice/bk.exe                   wildcardpractice/sample99.docx
wildcardpractice/bk.pdf                   wildcardpractice/samplejsonfile.json
wildcardpractice/bk.xml                   wildcardpractice/sample.pdf
wildcardpractice/book.exe                 wildcardpractice/Sample.pdf
wildcardpractice/book.pdf                 wildcardpractice/samplesite.html
wildcardpractice/book.xml
eli@cis106:~$ ls wildcardpractice/[[:punct:]]*
wildcardpractice/_random.csv
```
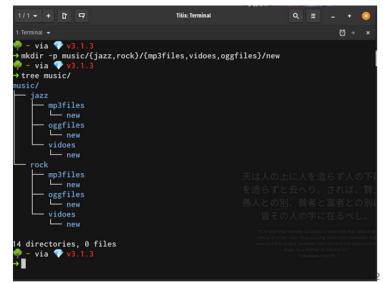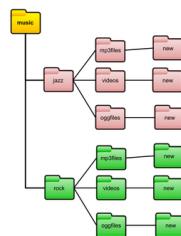
Solution: Practice 3

1. ls wildcardpractice/[a-z]*.???

2. ls wildcardpractice/[A-Z]*[0-9]*

3. ls wildcardpractice/[0-9][0-9][0-9][0-9]*

4. ls wildcardpractice/[!AEIOUaeiou]*

5. ls wildcardpractice/[[:punct:]]*

```
eli@cis106:~$ mkdir -pv music/{jazz,rock}/{mp3files,videos,oggfiles}/new
mkdir: created directory 'music'
mkdir: created directory 'music/jazz'
mkdir: created directory 'music/jazz/mp3files'
mkdir: created directory 'music/jazz/mp3files/new'
mkdir: created directory 'music/jazz/videos'
mkdir: created directory 'music/jazz/videos/new'
mkdir: created directory 'music/jazz/oggfiles'
mkdir: created directory 'music/jazz/oggfiles/new'
mkdir: created directory 'music/rock'
mkdir: created directory 'music/rock/mp3files'
mkdir: created directory 'music/rock/mp3files/new'
mkdir: created directory 'music/rock/videos'
mkdir: created directory 'music/rock/videos/new'
mkdir: created directory 'music/rock/oggfiles'
mkdir: created directory 'music/rock/oggfiles/new'
eli@cis106:~$ tree music/
music/
├── jazz
│   ├── mp3files
│   │   └── new
│   ├── oggfiles
│   │   └── new
│   └── videos
│       └── new
└── rock
    ├── mp3files
    │   └── new
    ├── oggfiles
    │   └── new
    └── videos
        └── new

15 directories, 0 files
```

PRACTICE 4: Brace Expansion

Create the following directory structure in your home directory:

Question 2

```
eli@cis106:~$ mkdir -pv wallpapers/cars/{1080p,2k,4k}
mkdir: created directory 'wallpapers'
mkdir: created directory 'wallpapers/cars'
mkdir: created directory 'wallpapers/cars/1080p'
mkdir: created directory 'wallpapers/cars/2k'
mkdir: created directory 'wallpapers/cars/4k'
eli@cis106:~$ tree wallpapers/
wallpapers/
└── cars
    ├── 1080p
    ├── 2k
    └── 4k

5 directories, 0 files
eli@cis106:~$ mkdir -pv assets/{imgs,videos}/large,small}
mkdir: created directory 'assets'
mkdir: created directory 'assets/imgs'
mkdir: created directory 'assets/imgs/large,small}'
mkdir: created directory 'assets/videos'
mkdir: created directory 'assets/videos/large,small}'
eli@cis106:~$ tree assets/
assets/
├── imgs
│   └── large,small}
└── videos
    └── large,small}

5 directories, 0 files
eli@cis106:~$ _
```

Linux Fundamentals

LABS

DOCUMENTATION

Question 2: Challenge 1

Use brace expansion to create the following direc

Directory 1

```
wallpapers/
└── cars
    ├── 1080p
    ├── 2k
    └── 4k
```

Directory 2

```
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
```

Question 3


```
eli@cis106:~/website_ch1_lab7$ mkdir -pv {app,assets/{css,images},components,config/deploy,data,pages}
mkdir: created directory 'app'
mkdir: created directory 'assets'
mkdir: created directory 'assets/css'
mkdir: created directory 'assets/images'
mkdir: created directory 'components'
mkdir: created directory 'config'
mkdir: created directory 'config/deploy'
mkdir: created directory 'data'
eli@cis106:~/website_ch1_lab7$ mv *.css assets/css/
eli@cis106:~/website_ch1_lab7$ mv *.{jpg,png,svg,raw} assets/images/
eli@cis106:~/website_ch1_lab7$ mv *er.html components/ mv *bar.html components/
mv: cannot move 'components/' to a subdirectory of itself, 'components/components'
mv: cannot stat 'mv': No such file or directory
eli@cis106:~/website_ch1_lab7$ mv *bar.html components/ mv *er.html components/
mv: cannot stat '*bar.html': No such file or directory
mv: cannot move 'components/' to a subdirectory of itself, 'components/components'
mv: cannot stat 'mv': No such file or directory
mv: cannot stat '*er.html': No such file or directory
eli@cis106:~/website_ch1_lab7$ mv *er.html components/
mv: cannot stat '*er.html': No such file or directory
eli@cis106:~/website_ch1_lab7$ mv *er.html components/
mv: cannot stat '*er.html': No such file or directory
eli@cis106:~/website_ch1_lab7$ mv *.conf* config/
eli@cis106:~/website_ch1_lab7$ mv *.sh config/deploy/
eli@cis106:~/website_ch1_lab7$ mv post*.h??? pages/
eli@cis106:~/website_ch1_lab7$ mv *.[Jj][Ss][Oo][Nn] data/
eli@cis106:~/website_ch1_lab7$ _
```