Week Report 6

Wildcards

* Wildcard

The * wildcard matches any characters 0 or more times.

- Examples:
 - List all text files in a directory
 - ls *.txt
 - List all files that start with dog
 - ls dog.*
 - List all files that have any letters before the word apple
 - ls *apple.*

? Wildcard

The? wildcard matches one character.

- Examples:
 - List all the files with a 2 character file extension
 - ls *.??
 - List all the files that start with c and have 3 characters
 - ls c??.*
 - Copy all png files that has a name of 3 characters
 - cp ~/Downloads/???.png ~/Pictures/

[] Wildcard

The brackets wildcard matches a single character in the range. It uses an exclamation mark to reverse a match.

- Examples:
 - List all files that have any letters after c
 - ls c[a-z]*
 - List all doc files that do not have numbers in the name
 - ls *[!0-9].doc
 - List all png files whose name begins with h-o or start with f or n
 - ls [h-ofn]*.png

Brace Expansion

Brace expansion {} is used to generate strings with a command

- Examples:
 - Create 5 png files at once
 - touch image{1..5}.png

```
• Create multiple directories at once
```

```
mkdir -p ~/Pictures/{dogs,cats}/{fluffy,big,small}/pics{1..3}
```

- Remove multiple files at once
 - rm -r {image1.png,image2.png,image3.png}

Practices

Practice 5

```
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1 *random*.*
random_text.md
randomtext.txt
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1 *.csv *.txt
78food.txt
_random.csv
randomtext.txt
Sample1234.csv
sample123.csv
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1 random*.md
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1 *sample*.* *.md
random_text.md
sample123.csv
sample1.doc
sample1.xls
sample99.docx
samplejsonfile.json
sample.pdf
samplesite.html
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$
```

Practice 6

```
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1X *.???
random.csv
Sample1234.csv
sample123.csv
sample1.doc
baik.exe
beatk.exe
bk.exe
book.exe
2022-02-02-camera.jpg
fail.log
ile.log
allfiles.lst
Allfiles.lst
baik.pdf
beatk.pdf
bk.pdf
book.pdf
sample.pdf
Sample.pdf
logo100x100.png
2020-08-27-capture.raw
78food.txt
randomtext.txt
sample1.xls
baik.xml
beatk.xml
bk.xml
book.xml
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls ./.??*
./.bash_history ./.hidden1.doc ./.hidden1.py ./.hidden2.doc ./.hidden2.py ./.hiddenFile.txt
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1X b??*.???
baik.exe
beatk.exe
book.exe
baik.pdf
beatk.pdf
book.pdf
baik.xml
beatk.xml
book.xml
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1X sample*.?*
sample123.csv
sample1.doc
sample99.docx
samplesite.html
samplejsonfile.json
sample.pdf
sample1.xls
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ./.??*.??
bash: ./.hidden1.py: Permission denied
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -1X ./.??*.??
./.hidden1.py
./.hidden2.py
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$
```

Practice 7

```
baik.exe bk.exe fail.log allfiles.lst
beatk.exe book.exe file.log baik.pdf
                                                                                                        beatk.pdf
                                                                                                                           book.pdf
                                                                                                                                                                               sample1.xls
                                                                                                                                                                                                      beatk.xml book.xml
sample123.csv baik.exe
 sample123.csv balk.exe bk.exe file.log balk.exe bk.pdf bbok.pdf book.pdf sample.pdf randomtext.txt
sample1.doc beatk.exe book.exe file.log balk.pdf bk.pdf sample.pdf randomtext.txt
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:-/wildcardpractice$ ls -X [A-Z]*[0-9]*
                                                                                                                                                                               baik.xml
sample1.doc
                                                                                                                                                                                                      bk.xml
Sample1234.csv
 adie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice$ ls -X [0-9][0-9][0-9][0-9]*
 021-04-10-screenshot.jpeg 2022-02-02-camera.jpg 2020-08-27-capture.raw
Tandom.csv sample1.doc beatk.exe samplesie.html
Sample1234.csv sample99.docx bk.exe 2021-04-10-scree
sample123.csv baik.exe book.exe 2022-02-02-camer
                                                                                                                      random_text.md bk.pdf
baik.pdf book.pdf
beatk.pdf sample.pdf
                                                                                                                                                                                           78food.txt baik.xml book.xml randomtext.txt beatk.xml sample1.xls bk.xml
                                                                                                                                                           2020-08-27-capture
```

sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice\$ ls -X [[:punct:]]*
_random.csv
sadie-rose-tischler@sadie-rose-tischler-VirtualBox:~/wildcardpractice\$