wr6.md 11/1/2022

Week Report 6

Wildcards:

represents letters and characters used to specify a file name for searches.

* Wildcard:

a star alone matches anything and nothing and matches any number of characters.

Examples:

- List all the text files in a directory
 - ls *.txt
- · List all the files that start with the word file
 - ls file.*
- Copy all the mp4 files
 - cp Downloads/*.mp4 ~/Videos/Movies/

? Wildcard:

matches one character and very useful when working with hidden files.

Examples:

- · List all hidden files in the current directory
 - o ls ./.??*
- List all files that have a two character between letter b and k
 - ls b??k*
- List all the files that have a 3 letter file extension
 - o ls *.???

[] Wildcard:

match a single character in a range and use the exclamation mark to reverse the match.

Examples:

- List all files that have a vowel after letter f
 - ls f[aeiou]*
- List all files whose name begins with a letter from a-p or start with letters s or c
 - ls [a-psc]*
- List all files whose name begins with any 3 combinations of numbers and the current user's username
 - ls [0-9][0-9]\$USER

{} Brace Expansion:

not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands

wr6.md 11/1/2022

Examples:

- To create a whole directory structure in a single command
 - mkdir-p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
- To create a N number of files use
 - touch website{1..5}.html
 - touch file{A..Z}.txt
 - touch file{001.10}.py
 - touch file{{a..z},{0..10}}.js
- · Remove multiple files in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice:

Practice 5:

```
sskisijara@CIS106vm: ~/wildcardpractice
sskisijara@CIS106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
-2022-11-01 19:20:34-- 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
                            3.44K --.-KB/s
                                                                                                 in 0.02s
2022-11-01 19:20:34 (193 KB/s) - 'logo100x100.png' saved [3520/3520]
sskisijara@CIS106vm:~$ ls wildcardpractice/*random<sup>*</sup>
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
sskisijara@CIS106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
                              wildcardpractice/randomtext.txt wildcardpractice/sample123.csv
wildcardpractice/78food.txt
wildcardpractice/_random.csv wildcardpractice/Sample1234.csv
sskisijara@CIS106vm:~$ cd wildcardpractice/
sskisijara@CIS106vm:~/wildcardpractice$ ls random*.md
random_text.md
sskisijara@CIS106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx
                                                    sample.pdf
                sample1.xls samplejsonfile.json samplesite.html
sample123.csv
sskisijara@CIS106vm:~/wildcardpractice$
```

Practice 6:

```
sskisijara@CIS106vm: ~/wildcardpractice
                                                                                     Q
sskisijara@CIS106vm:~/wildcardpractice$ ls *???
2020-08-27-capture.raw
                            baik.exe
                                       bk.exe
                                                  fail.log
                                                                   Sample1234.csv
                                                                                        sample.pdf
2021-04-10-screenshot.jpeg
                            baik.pdf
                                       bk.pdf
                                                  file.log
                                                                   sample123.csv
                                                                                        Sample.pdf
2022-02-02-camera.jpg
                            baik.xml
                                                  logo100x100.png
                                                                   sample1.doc
                                                                                        samplesite.html
                                       bk.xml
                            beatk.exe
                                       book.exe
                                                  random.csv
78food.txt
                                                                   sample1.xls
                                                                   sample99.docx
allfiles.lst
                            beatk.pdf
                                       book.pdf
                                                 random_text.md
Allfiles.lst
                            beatk.xml
                                       book.xml
                                                 randomtext.txt
                                                                   samplejsonfile.json
sskisijara@CIS106vm:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
sskisijara@CIS106vm:~/wildcardpractice$ ls b??*.???
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
sskisijara@CIS106vm:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
sskisijara@CIS106vm:~/v
                        ildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
sskisijara@CIS106vm:~/wildcardpractice$
```

wr6.md 11/1/2022

Practice 7:

