Week Report 6

Wildcard

* Wildcard

- *Examples*

    - List all files in the current directory
        - `ls *`
    - List all files with a specific extension
        - `ls *.txt`
    - List all files with a specific pattern
        - `ls file*`

? Wildcard

- *Examples*

    - List files with a single character filename
        - `ls ?`
    - List files with a specific extension and a single character filename
        - `ls *.?`
    - List all the files that only has 5 characters before the extension
    - `ls ?????.*`

[] Wilcard

- *Examples*

    - Remove files with a specific set of characters in the filename

        - `rm file[0-9].txt`

    - List all the files that start with upper case

        - `ls [A-Z]*`

    - List files with a specific set of characters in the filename

        - `ls [abc]*.txt`

Practice 5

```
evreynoso@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-18 20:20:02--  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    in 0s

2023-11-18 20:20:03 (13.7 MB/s) - 'logo100x100.png' saved [3520/3520]

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

Practice 6

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

evreynoso@cis106:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.doc  .hidden1.py  .hidden2.doc  .hidden2.py  .hiddenFile.txt
evreynoso@cis106:~/wildcardpractice$ ls b??*.???
baik.exe  baik.pdf  baik.xml  beatk.exe  beatk.pdf  beatk.xml  book.exe  book.pdf  book.xml
evreynoso@cis106:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
evreynoso@cis106:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
evreynoso@cis106:~/wildcardpractice$
```

Practice 7

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

Brace Expansion

- *Brace expansion is useful for generating lists of strings with a common pattern.*

  - Create multiple directories in a singular command

- `mkdir -p project/{src/{main,test}/{java,resources},bin,docs}`
  - Removing Specific Files
    - `rm file1.txt file2.txt file3.txt`
  - Copy multiple files at the same time
    - `cp file1.txt file2.txt file3.txt /destination/directory/`

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