Week Report 6

Wildcard

* Wildcard

the * wildcard matches from 0 to any number of characters.

- Examples
    - List all the mp3 files in a directory
        - `ls *.mp3`
    - List all the Files that start with the word text
        - `ls text*`
    - remove all the Files that has the name carlos
        - `rm -r ~/*carlos*`

? Wildcard

the ? wildcard matches a single character.

- Examples
    - list all the files that have 2 only characters in the extension
        - `ls *.??`
    - list all the files that has only 1 character and are followed by the word homework in the name
        - `ls ?homework*`
    - list all the files that only has 5 characters before the extension
        - `ls ?????.*`

[] Wilcard

the [] wilcard match a single character in a range

- Examples
    - list all the files that start with a number
        - `ls [0-9]*`
    - list all the files whose name does not have a vowel before the file extension
        - `ls *[!aeiou].*`
    - list all the files that start with upper case
        - `ls [A-Z]*`

Practice 5

```
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls *random*
_random.csv  random_text.md  randomtext.txt
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls *.csv *.txt
78food.txt  _random.csv  randomtext.txt  Sample1234.csv  sample123.csv
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls *random*.md
random_text.md
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx      sample.pdf
sample123.csv  sample1.xls  samplejsonfile.json  samplesite.html
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ _
```

Practice 6

```
1: carlosjcatotavalladares@cis106vm: ~/wildcardpractice ∨
carlosjcatotavalladares@cis106vm:~/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
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls .??
ls: cannot access '.??': No such file or directory
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.doc  .hidden1.py  .hidden2.doc  .hidden2.py  .hiddenFile.txt
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls b??*.???
baik.exe  baik.pdf  baik.xml  beatk.exe  beatk.pdf  beatk.xml  book.exe  book.pdf  book.xml
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ _
```

Practice 7

```
carlosjcatotavalladares@cis106vm:~/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
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
carlosjcatotavalladares@cis106vm:~/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
carlosjcatotavalladares@cis106vm:~/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
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls [:punct:]*
ls: cannot access '[:punct:]*': No such file or directory
carlosjcatotavalladares@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
```

Brace Expansion

Brace Expansion{} allows you to generate arbitrary strings to use with commands. to use Brace expansion you need to use *{}* and separate each file with , non space

- exmaples
  - create multiple directories in a singular command

- - mkdir -p docs/{homeworks,weekreports}/{week1,week2}
  - rm multiple files in a single directory
    - rm docs/{kl.txt,music.mp3,teen.txt}
  - copy multiple files at the same time
    - cp -r {kl.txt,lk.mp3} docs/