Week Report 6

Wildcards.

* wildcard

The * Wildcard matches from 0 to any number of characters.

- Examples:
  - List all the text file 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

The ? Wildcard matches a single character.

- Examples:
  - List all the files that have a 3 letter file extension
    - `ls *.???`
  - List all the files that have two characters between b and k
    - `ls b??k*`
  - To list all hidden files
    - `ls ./.??*`

[] Wildcard

The [] Wildcard matches a single character from a set

- Examples:
  - To match all the files that have a vowel after letter f.
    - `ls f[aeiou]*`
  - To match all the files whose name has at least one number
    - `ls *[0-9]*`
  - To match all files whose names begins with a letter from a-p or start with letter s or c
    - `ls [a-psc]*`

Brace Expansion

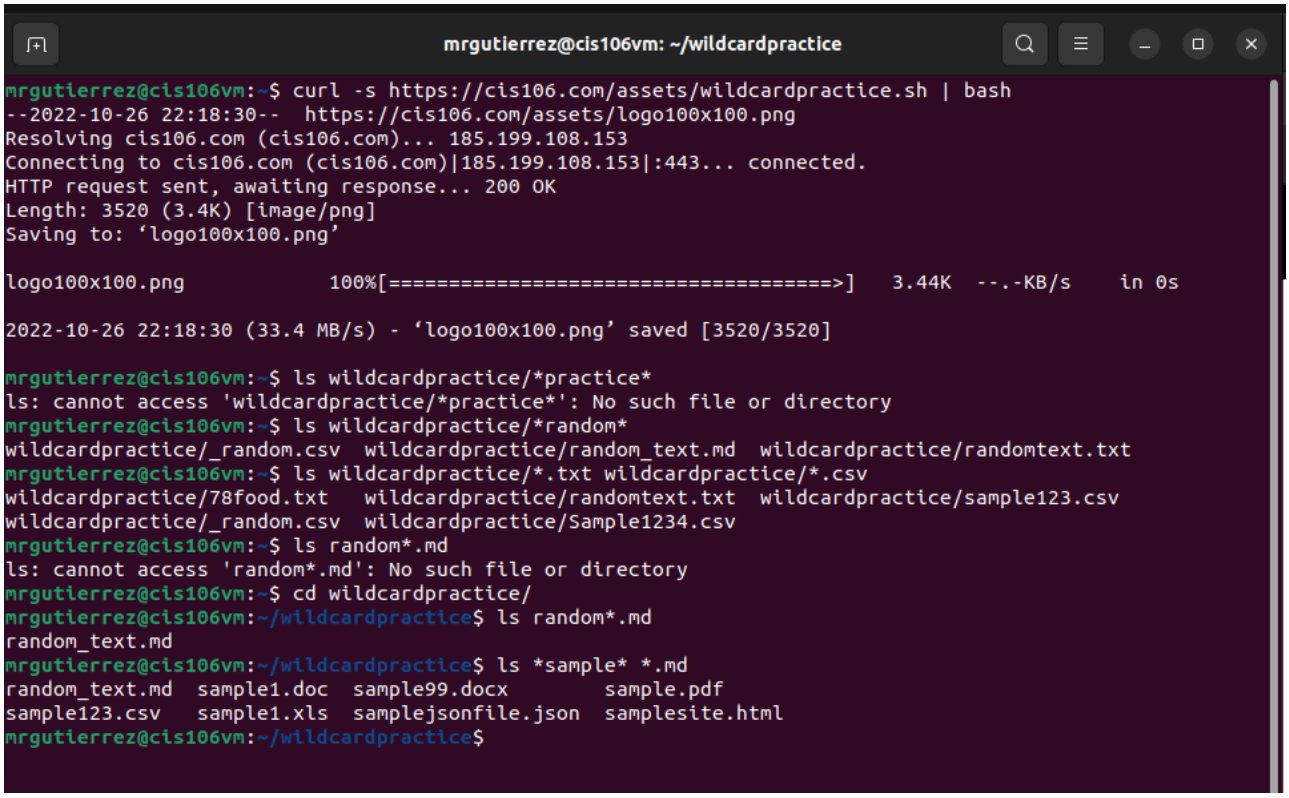
The {} expansion allows you to generate arbitrary strings to use with commands

- Examples:
  - To create a whole directory structure in a single command.
    - `mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}`

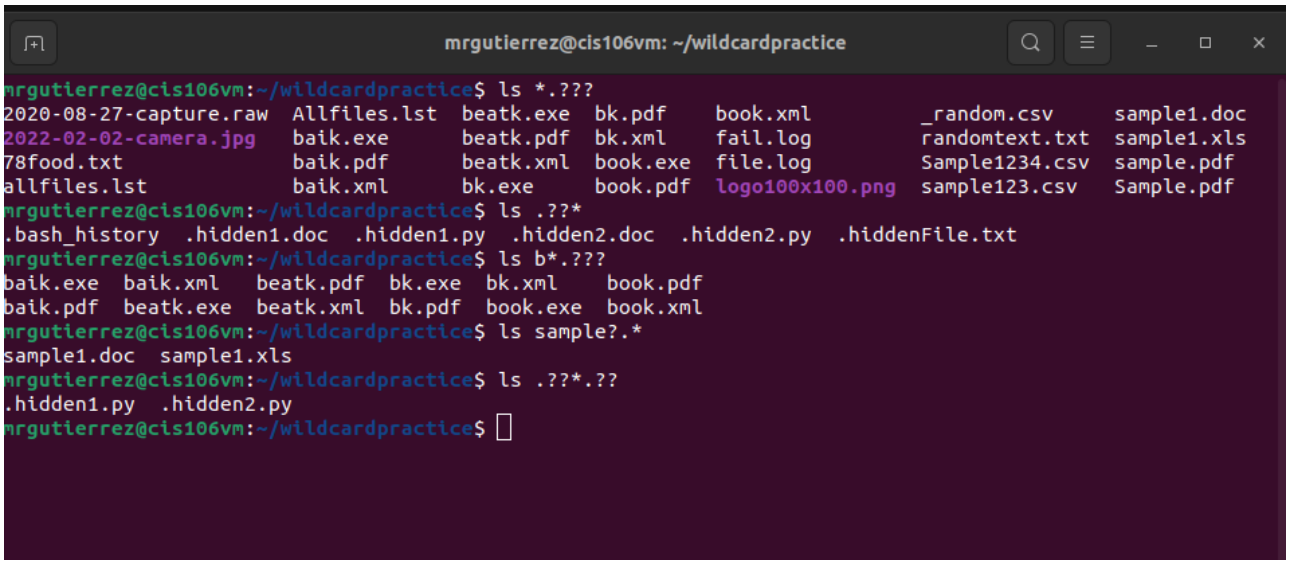
- To create a N number of files use.
  - `touch file{A..z}.txt`
- Remove multiple files in a single directory
  - `rm -r {dir1,dir2,dir3,file.txt,file.py}`

Practice

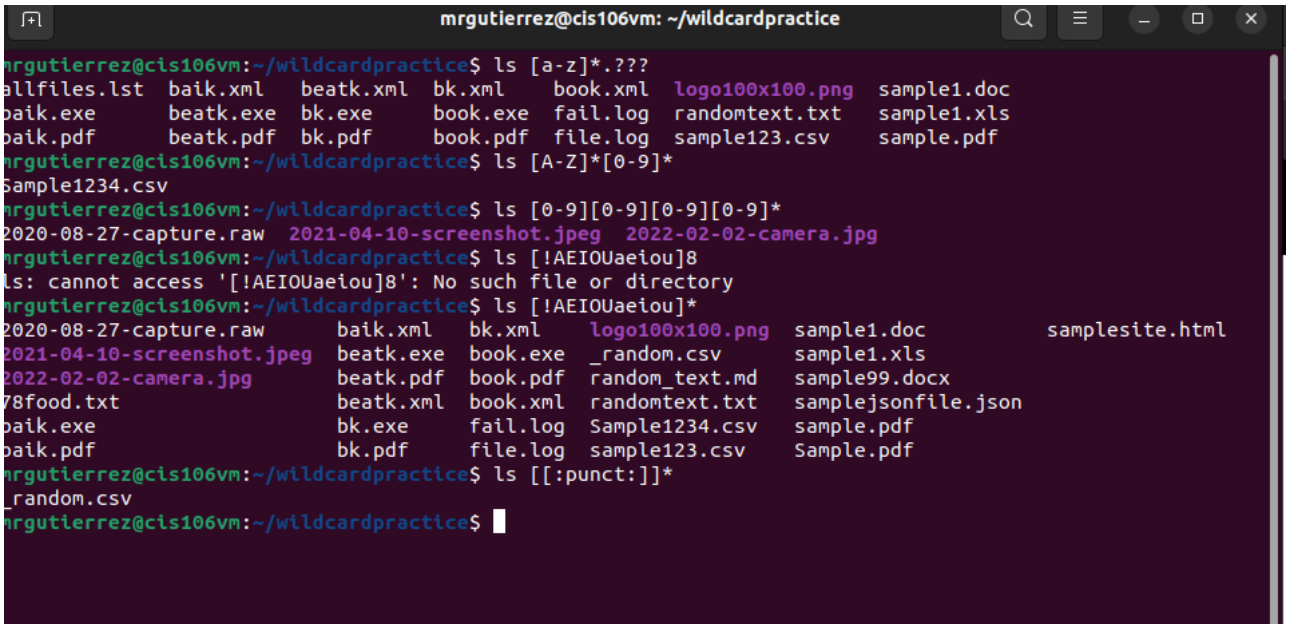
- Practice 5



- Practice 6



- Practice 7

- 
mrgutierrez@cis106vm: ~/wildcardpractice
mrgutierrez@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
mrgutierrez@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
mrgutierrez@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
mrgutierrez@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]8
ls: cannot access '[!AEIOUaeiou]8': No such file or directory
mrgutierrez@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw baik.xml bk.xml logo100x100.png sample1.doc samplesite.html
2021-04-10-screenshot.jpeg beatk.exe book.exe _random.csv sample1.xls
2022-02-02-camera.jpg beatk.pdf book.pdf random_text.md sample99.docx
78food.txt beatk.xml book.xml randomtext.txt samplejsonfile.json
baik.exe bk.exe fail.log Sample1234.csv sample.pdf
baik.pdf bk.pdf file.log sample123.csv Sample.pdf
mrgutierrez@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
mrgutierrez@cis106vm:~/wildcardpractice$