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:
    - to list all hidden files
        - 'ls .??*'
    - to list all the files that have 3 characters and are followed by the word file in the same name
        - 'ls ???File*'
    - to list all files that start with letter b
        - 'ls b??*'

[] Wildcard

The brackets wildcard match a single character in a range, uses the exclamation mark to reverse the match

- Examples:
    - to match all files that have a vowel after letter f
        - 'ls f[aeiou]*'
    - to match all files that do not have a vowel after letter f
        - 'ls f[!aeiou]'
    - to match all files that have a range of letters after f
        - 'ls f[a-z]*'

Brace expansion

The brace expansion {} is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.

- Examples:
    - to create a whole directory structure ina 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
- remove multiple file in a single directory
  - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice

Practice 5

Practice 6

Practice 7

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1: hellokitty@cis106: ~/wildcardpractice ∨                                                                        ⬚

hellokitty@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
hellokitty@cis106:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
hellokitty@cis106:~/wildcardpractice$ ls [0-9][0-9][0-9]*
2020-08-27-capture.raw   2021-04-10-screenshot.jpeg   2022-02-02-camera.jpg
hellokitty@cis106:~/wildcardpractice$ ls [0-9][0-9][0-9]**
2020-08-27-capture.raw   2021-04-10-screenshot.jpeg   2022-02-02-camera.jpg
hellokitty@cis106:~/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
hellokitty@cis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
hellokitty@cis106:~/wildcardpractice$ _
```