... name: your name course: cis106 semester: fall 22 ...

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 hidden files
        - `ls .??*`
    - List all the files that have a 3 letter file extension
        - `ls *.???`
    - List all the files that have a single character between letter f and l.
        - `ls f?l*`

[] wildcard

The [] wildcard match a single character in a range.

- Examples:
    - to match all files whose name has at least one number.
        - `ls *[0-9]*`
    - To match all files that have a range of letters after f.
        - `ls f[a-z]`
    - to match all files that have a vowel after letter f.
        - `ls f[aeiou]*`

Brace Expansion

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

- Examples:

- remove multiple files in a single directory
  - `rm -r {dir1,dir2,dir3,file.txt,file.py}`
- 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`

Practice

practice 5

practice 6

```
logo100x100.png     100%[===================>]   3.44K  --.-KB/s    in 0.003s

2022-11-05 18:55:47 (1.30 MB/s) - 'logo100x100.png' saved [3520/3520]

djsalman@cis106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv      wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
djsalman@cis106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt      wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv      wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt
djsalman@cis106vm:~$ cd wildcardpractice/
djsalman@cis106vm:~/wildcardpractice$ ls random*.md
random_text.md
djsalman@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx      sample.pdf
sample123.csv   sample1.xls  samplejsonfile.json  samplesite.html
djsalman@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  allfiles.lst  baik.pdf   beatk.pdf  bk.pdf    book.pdf  file.log       randomtext.txt  sample1.doc  Sample.pdf
2022-02-02-camera.jpg   Allfiles.lst  baik.xml   beatk.xml  bk.xml    book.xml  logo100x100.png  Sample1234.csv  sample1.xls
78food.txt              baik.exe      beatk.exe  bk.exe     book.exe  fail.log  _random.csv      sample123.csv   sample.pdf
djsalman@cis106vm:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.doc  .hidden1.py  .hidden2.doc  .hidden2.py  .hiddenFile.txt
djsalman@cis106vm:~/wildcardpractice$ ls b??*.???
baik.exe  baik.pdf  baik.xml  beatk.exe  beatk.pdf  beatk.xml  book.exe  book.pdf  book.xml
djsalman@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
djsalman@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
djsalman@cis106vm:~/wildcardpractice$
```

practice 7

```
djsalman@cis106vm: ~/wildcardpractice

random_text.md   sample1.doc   sample99.docx      sample.pdf
sample123.csv    sample1.xls   samplejsonfile.json  samplesite.html
djsalman@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  allfiles.lst  baik.pdf   beatk.pdf  bk.pdf    book.pdf  file.log       randomtext.txt  sample1.doc  Sample.pdf
2022-02-02-camera.jpg   Allfiles.lst  baik.xml   beatk.xml  bk.xml    book.xml  logo100x100.png  Sample1234.csv  sample1.xls
78food.txt              baik.exe      beatk.exe  bk.exe     book.exe  fail.log  _random.csv      sample123.csv   sample.pdf
djsalman@cis106vm:~/wildcardpractice$ ls .??*
.bash_history  .hidden1.doc  .hidden1.py  .hidden2.doc  .hidden2.py  .hiddenFile.txt
djsalman@cis106vm:~/wildcardpractice$ ls b??*.???
baik.exe  baik.pdf  baik.xml  beatk.exe  beatk.pdf  beatk.xml  book.exe  book.pdf  book.xml
djsalman@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
djsalman@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
djsalman@cis106vm:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst  baik.pdf  beatk.exe  beatk.xml  bk.pdf  book.exe  book.xml  file.log       randomtext.txt  sample1.doc  sample.pdf
baik.exe      baik.xml  beatk.pdf  bk.exe     bk.xml  book.pdf  fail.log  logo100x100.png  sample123.csv   sample1.xls
djsalman@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]
ls: cannot access '[A-Z]*[0-9]': No such file or directory
djsalman@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
djsalman@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
djsalman@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw     baik.exe   fail.log       random_text.md  sample1.doc       sample.pdf
2021-04-10-screenshot.jpeg  baik.pdf   beatk.xml  book.exe   file.log       randomtext.txt  sample1.xls       Sample.pdf
2022-02-02-camera.jpg       baik.xml   bk.exe     book.pdf   logo100x100.png  Sample1234.csv  sample99.docx     samplesite.html
78food.txt                  beatk.exe  bk.pdf     book.xml   _random.csv      sample123.csv   samplejsonfile.json
djsalman@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
djsalman@cis106vm:~/wildcardpractice$
```