

Week Report 6

Wildcards.

* Wildcard

The `*` matches any number of characters. You can use the asterisk (`*`) anywhere in a character string.

Example: List all pictures in a directory. `ls *.png` Here we can see in the result that files starting with A and ending with F. `ll A*f` Any file that begins with the letter 'B' `ls B*` Copy all the MP4 files `cp Downloads/*.mp4 ~/Videos/Movies/`

? Wildcard

The `?` wildcard metacharacter matches precisely one character.

- Example: Any file that begins with list followed by 1 character. `ls List?` Any file that begins from a range of a-d and followed by exactly 2 character. `ls [a-d]??` Any file that begins with the letter 'b' followed by exactly two characters and ending with 'y'. `ls B??y` To List all hidden Files

The [] Wildcard

The brackets wildcard match a single character in a range.

- Example: To match all the files that have numbers after letter A `ls A[0-9]*` Find file start with a particular character and is followed by another character. `ls [afgh]*o*` Finding file that contain the name, 'car' and the extension contains any character from a to x. `ls car.[a-x]*`

Brace Expansion

The `{}` Expansion allow you to generate arbitrary strings to use with commands.

- Example: Create a whole directory. `mkdir -p Music/{Bachata,Rap}` For removing a directory using the brace command `rm -r {dir1,dir2,picture.png,file.txt}`

Practice

Practice 5

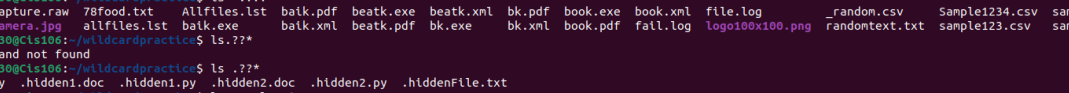
```
acastillo28530@Cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh |bash
--2022-12-21 23:11:57-- https://cis106.com/assets/logo100x100.png
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png'

logo100x100.png      100%[=====] 3.44K --.-KB/s in 0.007s

2022-12-21 23:11:57 (509 KB/s) - 'logo100x100.png' saved [3520/3520]

acastillo28530@Cis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv      wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
acastillo28530@Cis106:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
ls: cannot access 'wildcardpractice/*.txt': No such file or directory
wildcardpractice/_random.csv      wildcardpractice/sample123.csv
wildcardpractice/Sample1234.csv
acastillo28530@Cis106:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt      wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv     wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt
acastillo28530@Cis106:~$ cd wildcardpractice/
acastillo28530@Cis106:~/wildcardpractice$ ls random*.md
random_text.md
acastillo28530@Cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx      sample.pdf
sample123.csv  sample1.xls  samplejsonfile.json samplesite.html
acastillo28530@Cis106:~/wildcardpractice$
```

Practice 6



The screenshot shows a terminal window with the following content:

```

acastillo28530@Cis106: ~/wildcardpractice
acastillo28530@Cis106:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  78food.txt  Allfiles.lst  baik.pdf  beatk.exe  beatk.xml  bk.pdf  book.exe  book.xml  file.log  _random.csv  Sample1234.csv  sample1.doc  sample.pdf
2022-02-02-camera.jpg  allfiles.lst  batk.exe     baik.xml  beatk.pdf  bk.exe     bk.xml  book.pdf  fail.log  logo100x100.png  randomtext.txt  sample123.csv  sample1.xls  Sample.pdf
acastillo28530@Cis106:~/wildcardpractice$ ls ??*
ls.???* command not found
acastillo28530@Cis106:~/wildcardpractice$ ls .???*
.bash_history  .hidden1.doc  .hidden1.py  .hidden2.doc  .hidden2.py  .hiddenFile.txt
acastillo28530@Cis106:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
acastillo28530@Cis106:~/wildcardpractice$ ls .???*
.hidden1.py  .hidden2.py
acastillo28530@Cis106:~/wildcardpractice$

```

Practice 7

```

acastillo28530@Cis106: ~/wildcardpractice$ ls [a-z]*.???
allfiles.lst  ba1k.pdf  beatk.exe  beatk.xml  bk.pdf  book.exe  book.xml  file.log  randomtext.txt  sample1.doc  sample.pdf
ba1k.exe     ba1k.xml  beatk.pdf  bk.exe     bk.xml  book.pdf  fail.log  logo100x100.png  sample123.csv  sample1.xls
acastillo28530@Cis106: ~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
acastillo28530@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
acastillo28530@Cis106: ~/wildcardpractice$ ls [!AIOUaeiou]8
ls: cannot access '[!AIOUaeiou]8': No such file or directory
acastillo28530@Cis106: ~/wildcardpractice$ ^[[200-ls [!AIOUaeiou]8
ls: command not found
acastillo28530@Cis106: ~/wildcardpractice$ ~[!AIOUaeiou]*
~[!AIOUaeiou]*: command not found
acastillo28530@Cis106: ~/wildcardpractice$ ls [!AIOUaeiou]*
2020-08-27-capture.raw  78Food.txt  ba1k.xml  beatk.xml  bk.xml  book.xml  logo100x100.png  randomtext.txt  sample1.doc  sample1.json  sample1.jsonfile.json  samplesite.html
2021-04-10-screenshot.jpeg  ba1k.exe  beatk.exe  bk.exe  book.exe  fail.log  _random.csv  Sample1234.csv  sample1.xls  sample.pdf
2022-02-02-camera.jpg  ba1k.pdf  beatk.pdf  bk.pdf  book.pdf  file.log  _random_text.md  sample123.csv  sample99.docx  Sample.pdf
acastillo28530@Cis106: ~/wildcardpractice$ ls [[:punct:]]*
_random.csv
acastillo28530@Cis106: ~/wildcardpractice$ █

```