ASSIGNMENT-4: FILTER COMMANDS AND REGULAR EXPRESSIONS

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FILTER COMMANDS

vishakan@vishakan-legion:~\$ cat>filter.txt

1234 Juan 14.25 4321 George21.11 6781 Anna 16.77 1451 Ben 21.77 2277 Tuan 18.77

vishakan@vishakan-legion:~\$ sort filter.txt

1234 Juan 14.25 1451 Ben 21.77 2277 Tuan 18.77 4321 George 21.11 6781 Anna 16.77

vishakan@vishakan-legion:~\$ awk '{print(\$1,\$3,\$2)}' filter.txt|tee filter2.txt

1234 14.25 Juan 4321 21.11 George 6781 16.77 Anna 1451 21.77 Ben 2277 18.77 Tuan

vishakan@vishakan-legion:~\$ tac filter2.txt|tee filter3.txt

2277 18.77 Tuan 1451 21.77 Ben 6781 16.77 Anna 4321 21.11 George 1234 14.25 Juan

vishakan@vishakan-legion:~\$ tail -1 filter3.txt|tee filter4.txt

1234 14.25 Juan

vishakan@vishakan-legion:~\$ cat>rate

142012.5645345614.5622234145.1234112223.5628144323.2319235167.905680017.0014

vishakan@vishakan-legion:~\$ wc -l rate

7 rate

vishakan@vishakan-legion:~\$ sort -k 2 -n rate|tail -1

2351 67.90 56

vishakan@vishakan-legion:~\$ sort rate

112223.5628142012.5645144323.2319234145.1234235167.9056345614.562280017.0014

vishakan@vishakan-legion:~\$ cat>lcase

this is all in lowercase

vishakan@vishakan-legion:~\$ cat lcase|tr '[a-z]' '[A-Z]'

THIS IS ALL IN LOWERCASE

REGULAR EXPRESSIONS

vishakan@vishakan-legion:~\$ cat doc

Apple

Balloon

Cat

Dog

Elephant

Fowl

1

2

2wenty 4our

3irty 5ive

vishakan@vishakan-legion:~\$ grep "[aeiou]" doc

Apple

Balloon

Cat

Dog

Elephant

Fowl

2wenty 4our

3irty 5ive

vishakan@vishakan-legion:~\$ grep "[^aeiou]" doc

Apple

Balloon

Cat

Dog

Elephant

Fowl

1

2

2wenty 4our

3irty 5ive

vishakan@vishakan-legion:~\$ grep "[a-z,A-Z]*\$" doc

Apple

Balloon

Cat

Dog

Elephant

Fowl

1

vishakan@vishakan-legion:~\$ ls -l ~| grep -P ".-rw.*"

-rw-r--rw- 1 vishakan vishakan 63 Aug 5 22:45 doc

vishakan@vishakan-legion:~\$ cat>email

abcd@gmail.com sample@domain.edu vish@domain.edu percy@yahoo.com

vishakan@vishakan-legion:~\$ grep "\<[a-z,A-Z]*@*.edu" email

sample@domain.edu vish@domain.edu

vishakan@vishakan-legion:~\$ grep "\<[a-z,A-Z]*@*.com" email

abcd@gmail.com percy@yahoo.com

vishakan@vishakan-legion:~\$ grep "^.\{3\}\$" doc

Cat Dog

vishakan@vishakan-legion:~\$ grep "^.\{4,\}\$" doc

Apple
Balloon
Elephant
Fowl
2wenty 4our
3irty 5ive

vishakan@vishakan-legion:~\$ grep "^.\{,3\}\$" doc

Cat Dog 1

2

vishakan@vishakan-legion:~\$ grep -c ^\$ doc

0

vishakan@vishakan-legion:~\$ cat sample

CAPITAL

Capcase

smallcase

vishakan@vishakan-legion:~\$ grep "[A-Z]" sample

CAPITAL

Capcase

vishakan@vishakan-legion:~\$ grep "\<[A-Z]" sample</pre>

CAPITAL

Capcase

vishakan@vishakan-legion:~\$ cat unix

This is UNIX lab.

Be like UNIX

UNIX takes time to learn.

UNIX is very useful

vishakan@vishakan-legion:~\$ grep "\.\$" unix

This is UNIX lab.

UNIX takes time to learn.

vishakan@vishakan-legion:~\$ cat cal

This July of 2019 I turn 19.

This Jan of 2019 is the new month.

There are 6 months between Jan and July.

vishakan@vishakan-legion:~\$ grep July *

cal:This July of 2019 I turn 19.

cal:There are 6 months between Jan and July.

vishakan@vishakan-legion:~\$ grep -i July *

cal:This July of 2019 I turn 19.

cal:There are 6 months between Jan and July.

vishakan@vishakan-legion:~\$ grep -i [^July] *

cal:This July of 2019 I turn 19.

cal:This Jan of 2019 is the new month.

cal:There are 6 months between Jan and July.

doc:Apple doc:Balloon

doc:Cat

doc:Dog

doc:Elephant

doc:Fowl

doc:1

doc:2

doc:2wenty 4our

doc:3irty 5ive

email:abcd@gmail.com

email:sample@domain.edu

email:vish@domain.edu

email:percy@yahoo.com

sample:CAPITAL

sample:Capcase

sample:smallcase

unix:This is UNIX lab.

unix:Be like UNIX

unix:UNIX takes time to learn.

unix:UNIX is very useful

vishakan@vishakan-legion:~\$ cat foo

abcde

ABCDE

12345

123re543

wrw302

vishakan@vishakan-legion:~\$ grep "^[^a-z]" foo

ABCDE

12345

123re543

vishakan@vishakan-legion:~\$ grep -v "^[a-z]" foo

ABCDE 12345 123re543

//Therefore, the above 2 commands are similar. $\land [\land a-z]$ matches patterns with lines not starting with a lowercase alphabet. Grep -v is an inverted grep (i.e. it returns the non-matching lines of the pattern

^[a-z] i.e starting with a lowercase alphabet.

vishakan@vishakan-legion:~\$ cat foo

abcde ABCDE 12345. 123re543.

Wrw302;

vishakan@vishakan-legion:~\$ grep "\>[.;]" foo

12345. 123re543. wrw302;