Ex. No: 1.1 Basic Unix Commands

Aim

To study and execute Unix commands.

Unix is security conscious, and can be used only by those persons who have an account. *Telnet* (Telephone Network) is a Terminal emulator program for TCP/IP networks that enables users to log on to remote servers.

To *logon*, type **telnet** *server_ipaddress* in **run** window.

User has to authenticate himself by providing *username* and *password*. Once verified, a greeting and \$ prompt appears. The shell is now ready to receive commands from the user. Options suffixed with a hyphen (–) and arguments are separated by space.

General commands

Command	Function	
date	Used to display the current system date and time.	
date +%D	Displays date only	
date +%T	Displays time only	
date +% Y	Displays the year part of date	
date +% H	Displays the hour part of time	
cal	Calendar of the current month	
cal <i>year</i>	Displays calendar for all months of the specified year	
cal <i>month year</i>	Displays calendar for the specified month of the year	
who	Login details of all users such as their IP, Terminal No, User name,	
who am i	Used to display the login details of the user	
tty	Used to display the terminal name	
uname	Displays the Operating System	
uname -r	Shows version number of the OS (kernel).	
uname -n	Displays domain name of the server	
echo "txt"	Displays the given text on the screen	
echo \$HOME	Displays the user's home directory	
bc	Basic calculator. Press Ctrl+d to quit	
lp file	Allows the user to spool a job along with others in a print queue.	
man <i>cmdname</i>	Manual for the given command. Press q to exit	
history	To display the commands used by the user since log on.	
exit	Exit from a process. If shell is the only process then logs out	

Directory commands

Command	Function
pwd	Path of the present working directory
mkdir <i>dir</i>	A directory is created in the given name under the current directory
mkdir <i>dir1 dir2</i>	A number of sub-directories can be created under one stroke
cd subdir	Change Directory. If the <i>subdir</i> starts with <i>I</i> then path starts from
	root (absolute) otherwise from current working directory.
cd	To switch to the home directory.
cd /	To switch to the root directory.

Command	Function	
cd	To move back to the parent directory	
rmdir subdir Removes an empty sub-directory.		

File commands

Command	Function	
cat > <i>filename</i>	To create a file with some contents. To end typing press Ctrl+d .	
	The > symbol means redirecting output to a file. (< for input)	
cat <i>filename</i>	Displays the file contents.	
cat >> filename	Used to append contents to a file	
cp src des	Copy files to given location. If already exists, it will be overwritten	
cp -i src des	Warns the user prior to overwriting the destination file	
cp -r src des	Copies the entire directory, all its sub-directories and files.	
mv old new	To rename an existing file or directoryi option can also be used	
mv f1 f2 f3 dir	To move a group of files to a directory.	
mv -v old new	Display name of each file as it is moved.	
rm <i>file</i>	Used to delete a file or group of filesi option can also be used	
rm *	To delete all the files in the directory.	
rm -r *	Deletes all files and sub-directories	
rm -f *	To forcibly remove even write-protected files	
ls	Lists all files and subdirectories (blue colored) in sorted manner.	
ls name	To check whether a file or directory exists.	
ls name*	Short-hand notation to list out filenames of a specific pattern.	
ls -a	Lists all files including hidden files (files beginning with .)	
ls −x <i>dirname</i>	To have specific listing of a directory.	
ls -R	Recursive listing of all files in the subdirectories	
ls -1	Long listing showing file access rights (read/write/execute- rwx for	
	user/group/others -ugo).	
cmp file1 file2	Used to compare two files. Displays nothing if files are identical.	
wc file	It produces a statistics of lines (I), words(w), and characters(c).	
chmod <i>perm file</i>	, ,	
	chmod 740 file sets all rights for user, read only for groups	
	and no rights for others	

The commands can be combined using the pipeline (||) operator. For example, number of users logged in can be obtained as.

Finally to terminate the unix session execute the command exit or logout.

Result

Thus the study and execution of Unix commands has been completed successfully.

[sec@localhost User1]\$ date

```
Sat Apr 9 13:03:47 IST 2011
[sec@localhost User1]$ date +%D
04/09/11
[sec@localhost User1]$ date +%T
13:05:33
[sec@localhost User1]$ date +%Y
2011
[sec@localhost User1]$ date +%H
13
[sec@localhost User1]$ cal
    April 2011
  Su Mo Tu We Th Fr
 Sa 1 2 3 4 5 6
           7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
[sec@localhost User1]$ cal 08 1998
    August 1998
  Su Mo Tu We Th Fr
 Sa 1 2 3 4 5 6
             7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
[sec@localhost User1]$ cal 1800
                          1800
      January
                        February
                                              March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
         1 2 3 4
 5 6 7 8 9 10 11 2 3 4 5 6 7 8 2 3 4 5 6 7 8
12 13 14 15 16 17 18 9 10 11 12 13 14 15 9 10 11 12 13 14 15
26 27 28 29 30 31
                  23 24 25 26 27 28
                                      23 24 25 26 27 28 29
                                       30 31
      October
                       November
                                            December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
         1 2 3 4
                                    1
                                          1 2 3 4 5 6
```

```
5 6 7 8 9 10 11 2 3 4 5 6 7 8 7 8 9 10 11 12 13
12 13 14 15 16 17 18 9 10 11 12 13 14 15 14 15 16 17 18 19 20
26 27 28 29 30 31
                   23 24 25 26 27 28 29 28 29 30 31
                    30
[sec@localhost User1]$ who
root
        :0
                   Apr 9 08:41
        pts/0
User1
                   Apr 913:00 (scl-64)
                   Apr 913:18 (scl-41.smkfomra.com)
cse1
       pts/3
        pts/4
                   Apr 913:18 (scl-29.smkfomra.com)
ecea
[sec@localhost User1]$ who am i
        pts/0
                   Apr 913:00 (scl-64)
[sec@localhost User1]$ tty
/dev/pts/0
[sec@localhost User1]$ uname
Linux
[sec@localhost User1]$ uname -r
2.4.20-8 smp
[sec@localhost User1]$ uname -n
localhost.localdomain
[sec@localhost User1]$ echo "How are you"
How are you
[sec@localhost User1]$ echo $HOME
/home/User1
[sec@localhost User1]$ echo $USER
User1
[sec@localhost User1] $ bc
bc 1.06
Copyright 1991-1994, 1997, 1998, 2000 Free Software Foundation,
Inc. 3+5 8 2%3 2
[sec@localhost loops]$ pwd
/home/User1/shellscripts/loops
[sec@localhost User1]$ mkdir filter
[sec@localhost User1] $ 1s
filter list.sh regexpr shellscripts
```

```
[sec@localhost User1] cd shellscripts/loops/
[sec@localhost loops]$
[sec@localhost loops]$ cd
[sec@localhost User1]$
[sec@localhost loops]$ cd /
[sec@localhost /]$
[sec@localhost /]$ cd /home/User1/shellscripts/loops/
[sec@localhost loops]$ cd ..
[sec@localhost shellscripts]$
[sec@localhost User1]$ rmdir filter
[sec@localhost User1]$ ls
list.sh regexpr shellscripts
[sec@localhost User1] $ cat > greet
hi ece-a
wishing u the best
[sec@localhost User1]$ cat greet
hi ece-a
wishing u the best
[sec@localhost User1] $ cat >> greet
[sec@localhost User1]$ cat greet
hi ece-a
wishing u the
best bye
[sec@localhost User1]$ ls
greet list.sh regexpr shellscripts
[sec@localhost User1]$ ls -a
             .bash logout .canna .gtkrc regexpr .viminfo.tmp
            .bash profile .emacs .kde shellscripts .xemacs
.bash history .bashrc
                         greet
                                list.sh .viminfo
[sec@localhost User1]$ ls -1
total 16
-rw-rw-r--
                                      32 Apr 11 14:52 greet
            1 User1
                      User1
            1 User1
                                      30 Apr 4 13:58 list.sh
-rw-rw-r--
                      User1
            2 User1
                                    4096 Apr 9 14:30 regexpr
drwxrwxr-x
                      User1
drwxrwxr-x 7 User1 User1
                                    4096 Apr 4 14:57 shellscripts
[sec@localhost User1] $ cp greet ./regexpr/
[sec@localhost User1]$ ls
```

```
greet list.sh regexpr shellscripts
[sec@localhost User1] $ ls ./regexpr
demo greet
[sec@localhost User1]$ cp -i greet ./regexpr/
cp: overwrite 'greet'? n
[sec@localhost User1]$ ls
greet.txt list.sh regexpr shellscripts
[sec@localhost User1]$ mv greet.txt ./regexpr/
[sec@localhost User1]$ ls
list.sh regexpr shellscripts
[sec@localhost User1] $ ls ./regexpr/
demo greet.txt
[sec@localhost User1] $ 1s
fact.sh list.sh prime.sh regexpr shellscripts
[sec@localhost User1]$ rm -i *.sh
rm: remove regular file `fact.sh'? y
rm: remove regular file `list.sh'? n
rm: remove regular file `prime.sh'? y
[sec@localhost User1]$ ls
list.sh regexpr shellscripts
[sec@localhost User1]$ wc list.sh
                  30 list.sh
[sec@localhost User1]$ wc -l list.sh
     4 list.sh
[sec@localhost User1]$ cmp list.sh fact.sh
list.sh fact.sh differ: byte 1, line 1
[sec@localhost User1]$ ls -1
                              list.sh
                                    30 Apr 4 13:58 list.sh
-rw-rw-r-- 1 User1 User1
[sec@localhost User1]$ chmod
                              ug+x list.sh
[sec@localhost User1] $ ls -1
                              list.sh
                                           4 13:58 list.sh
-rwxrwxr--
           1 User1 User1
                                    30 Apr
[sec@localhost User1]$ chmod
                              740 list.sh
[sec@localhost User1]$ ls -1
                              list.sh
-rwxr---- 1 User1 User1
                                    30 Apr 4 13:58 list.sh
```

Ex. No: 1.2 Simple Filters

Aim

To query a data file using filter commands in unix.

Filters are the central commands of the UNIX tool kit. It acts on data file where lines are *records*, *fields* delimited by a character not used by the data (mostly |, default is white space). The output is a set of records and the input file is unaltered by these commands.

20057801 Aarthi 20057702 Albert Jerry	ECE CSE	CTS Wipro	36000 25000
20057903 Arun	IT	Ramco	12000
20057904 Diwakar	IT	TCS	10500
20057705 Geetha 20057806 Irudayaraj	CSE ECE	Infosys Polaris	23000 30000
20057600 Iudayala 20057707 Jaya Prakash	ICSE	Ramco	128000
20058008 Mahesh	EEE	Microsoft	15000
20057909 Manimaran	IT	Microsoft	19000
20058010 Mohammed Mukthar	EEE	Oracle	16000
20057711 Prithivi Rajan	CSE	Ramco	125000
20057712 Pushpak Chander 20057713 Ramesh	CSE CSE	CTS Wipro	27500 24000
20057817 Smitha	ECE	Ramco	30000

stud file

Command	Function		
head used to display the first few records (10 records by default)			
head stud	Displays first 10 records by default		
head -5 stud	Displays first 5 records		
head -1 stud wc -c	length of first record		
tail used to display the last few records (10 records by default)			
tail stud	Displays last 10 records by default		
tail -5 stud tee last5	Last 5 records listed & stored in file last5 using tee		
cut used to extract specific fields. The d option specifies the delimiter and f for			
specifying the field list. The c option may be used if extraction is done character wise			
cut -d \ -f 1,3,4 stud	Fields 1,3,4 listed		
cut -d \ -f 2-4 stud	Fields 2,3,4 listed		
paste -d \ list1 list2	merges two cut files list1 and list2		
sort reorders the file as per ASCII sequence. The t option is used to specify delimiter			
sort stud	Sorted on 1 st column by default		
sort -t \ +2 stud	Sort as per 3 rd column		
sort -c stud	Check if file is sorted using c option		
sort -t \ +3 -4 +4 stud	Sorting on secondary keys		
sort -t \ -nr +4 stud	Sort on numeric field using n option, r for reverse		
uniq stud	Display unique entries in a sorted file		
nl display file content with lines numbered. The s option is used to specify separator			
nl -s " " stud	Displays entries numbered with separator		
tr translates characters. Can be used to change text case. It works with standard input <			
tr '[a-z]' '[A-Z]' < stud	Changes text to upper case		

Result

Thus information retrieval using filters has been completed successfully.

[sec@localhost filters]	\$ hea	d stud	
20057801 Aarthi	ECE	CTS	36000
20057702 Albert Jerry	CSE	Wipro	25000
20057903 Arun	IT	Ramco	12000
20057904 Diwakar	IT	TCS	10500
20057705 Geetha	CSE	Infosys	23000
20057806 Irudayaraj	ECE	Polaris	30000
20057707 Jaya Prakash	CSE	Ramco	28000
20058008 Mahesh	EEE	Microsoft	5000
20057909 Manimaran	IT	Microsoft	19000
20058010 Mohammed Mukthar	EEE	Oracle	16000
[sec@localhost filters]	\$ hea	d -4 stud	
20057801 Aarthi	ECE	CTS	36000
20057702 Albert Jerry	CSE	Wipro	25000
20057903 Arun	IT	Ramco	12000
20057904 Diwakar	IT	TCS	10500
[sec@localhost filters]	\$ hea	d -1 stud wo	: -c
49			
[sec@localhost filters]	\$ tai		
20058008 Mahesh	EEE	Microsoft	5000
20057909 Manimaran	IT	Microsoft	19000
20058010 Mohammed Mukthar	EEE	Oracle	6000
20057711 Prithivi Rajan	CSE	Ramco	25000
20057712 Pushpak Chander	CSE	CTS	27500
20057713 Ramesh	CSE	Wipro	24000
20057817 Smitha	ECE	Ramco	30000
20057718 Sri Gurumoorthy	IT	Microsoft	11000
20057719 Tamil Selvi	EEE	CTS	3500
20057720 Thamotharan	IT	CTS	19000
[sec@localhost filters]	\$ tai	1 -2 stud te	e last2
20057719 Tamil Selvi	EEE	CTS	3500
20057720 Thamotharan	IT	CTS	19000
[sec@localhost filters]	\$ cat		
20057719 Tamil Selvi	EEE		3500
20057720 Thamotharan			19000
[sec@localhost filters]	\$ cut	-d \ -f 2,4-	·5 stud
20057801 Aarthi	ECE		
20057702 Albert Jerry	CSE		
20057903 Arun	IT		
20057904 Diwakar	IT		
20057705 Geetha	CSE		
20057806 Irudayaraj	ECE		
20057707 Jaya Prakash	CSE		
20058008 Mahesh	EEE		

```
20057909|Manimaran
                          IIT
20058010|Mohammed Mukthar | EEE
20057711|Prithivi Rajan
                           ICSE
20057712 | Pushpak Chander | CSE
20057713|Ramesh
                          ICSE
20057817|Smitha
                          | ECE
20057718|Sri Gurumoorthy |IT
20057719|Tamil Selvi
                          IEEE
20057720|Thamotharan
                          IT
[sec@localhost filters]$ cut -d \| -f 2,4 stud > nameorg
[sec@localhost filters]$ cut -d \| - f 5 stud > sal
[sec@localhost filters]$ paste -d \| nameorg sal
Aarthi
                 |CTS
                                136000
Albert Jerry
                 |Wipro
                                125000
Arun
                 |Ramco
                                 12000
Diwakar
                 ITCS
                                |10500
Geetha
                 |Infosys
                                123000
Irudayaraj
                 |Polaris
                                130000
Jaya Prakash
                 Ramco
                                128000
Mahesh
                 Microsoft
                                15000
Manimaran
                 |Microsoft
                                19000
Mohammed Mukthar | Oracle
                                 16000
Prithivi Rajan
                 |Ramco
                                125000
Pushpak Chander | CTS
                                127500
Ramesh
                 |Wipro
                                124000
Smitha
                 |Ramco
                                 130000
Sri Gurumoorthy | Microsoft
                                |11000
Tamil Selvi
                 |CTS
                                13500
                 ICTS
Thamotharan
                                19000
[sec@localhost filters]$ sort stud
20057702|Albert Jerry
                          ICSE
                                |Wipro
                                                 125000
20057705|Geetha
                          |CSE |Infosys
                                                 123000
20057707|Jaya Prakash
                          |CSE
                                                 128000
                                Ramco
20057711|Prithivi Rajan
                          | CSE
                                |Ramco
                                                 |25000
20057712|Pushpak Chander | CSE
                                |CTS
                                                 |27500
20057713|Ramesh
                          ICSE
                                |Wipro
                                                 124000
20057718|Sri Gurumoorthy
                         |IT
                                |Microsoft
                                                 111000
20057719|Tamil Selvi
                           EEE
                                |CTS
                                                 13500
20057720|Thamotharan
                                |CTS
                                                 19000
                          |IT
20057801|Aarthi
                           | ECE
                                ICTS
                                                 136000
20057806|Irudayaraj
                          | ECE
                                |Polaris
                                                 130000
20057817|Smitha
                           ECE
                                |Ramco
                                                 130000
20057903|Arun
                                                 |12000
                          | IT
                                |Ramco
20057904|Diwakar
                                                 |10500
                          |IT
                                | TCS
20057909|Manimaran
                          |IT
                                                 19000
                                Microsoft
20058008|Mahesh
                           |EEE |Microsoft
                                                 |5000
20058010|Mohammed Mukthar | EEE | Oracle
                                                 16000
```

[sec@localhost filters]	\$ sort	t -t \ +1 stud	l
20057801 Aarthi	ECE	CTS	36000
20057702 Albert Jerry	CSE	Wipro	25000
20057903 Arun	IT	Ramco	12000
20057904 Diwakar	IT	TCS	10500
20057705 Geetha	CSE	Infosys	23000
20057806 Irudayaraj	ECE	Polaris	30000
20057707 Jaya Prakash	CSE	Ramco	28000
20058008 Mahesh	EEE	Microsoft	5000
20057909 Manimaran	IT	Microsoft	19000
20058010 Mohammed Mukthar	EEE	Oracle	6000
20057711 Prithivi Rajan	CSE	Ramco	25000
20057712 Pushpak Chander	CSE	CTS	27500
20057713 Ramesh	CSE	Wipro	24000
20057817 Smitha	ECE	Ramco	30000
20057718 Sri Gurumoorthy	IT	Microsoft	11000
20057719 Tamil Selvi	EEE	CTS	3500
20057720 Thamotharan	IT	CTS	19000
[sec@localhost filters]			
20057712 Pushpak Chander	CSE	CTS	27500
20057801 Aarthi	ECE	CTS	36000
20057719 Tamil Selvi	EEE	CTS	3500
20057720 Thamotharan	IT	CTS	19000
20057705 Geetha	CSE	Infosys	23000
20058008 Mahesh	EEE	Microsoft	5000
20057718 Sri Gurumoorthy	IT	Microsoft	11000
20057909 Manimaran	IT	Microsoft	19000
20058010 Mohammed Mukthar		Oracle	6000
20057806 Irudayaraj	ECE	Polaris	30000
20057711 Prithivi Rajan	CSE	Ramco	25000
20057707 Jaya Prakash	CSE	Ramco	28000
20057817 Smitha	ECE	Ramco	30000
20057903 Arun	IT	Ramco	12000
20057904 Diwakar	IT	TCS	10500
20057713 Ramesh		Wipro	24000
20057702 Albert Jerry [sec@localhost filters]		_	25000
20057801 Aarthi	ECE	CTS	36000
20057817 Smitha	ECE	Ramco	30000
20057806 Irudayaraj	ECE	Polaris	30000
20057707 Jaya Prakash		Ramco	28000
20057712 Pushpak Chander		CTS	27500
20057711 Prithivi Rajan		Ramco	25000
20057702 Albert Jerry	CSE	Wipro	25000
20057713 Ramesh	CSE	Wipro	24000
20057705 Geetha	CSE	Infosys	23000

20057903 Arun IT 20057718 Sri Gurumoorthy IT 20057904 Diwakar IT 20057909 Manimaran IT 20057720 Thamotharan IT 20058010 Mohammed Mukthar EB 20058008 Mahesh EB	Microsoft TCS Microsoft CTS CTS	12000 11000 10500 9000 9000 6000 5000
[sec@localhost filters]\$ t 20057801 AARTHI	E CTS E WIPRO I RAMCO ITCS E INFOSYS E POLARIS E RAMCO IMICROSOFT IMICROSOFT E ORACLE I RAMCO E CTS I WIPRO I WIPRO I RAMCO I WIPRO I WICROSOFT I WIPRO I WIPRO I WIPRO I WIPRO	' < stud 36000 25000 12000 10500 23000 30000 28000 5000 9000 6000 25000 27500 24000 30000 11000 3500
20057720 THAMOTHARAN IT	CTS	19000
1 20057801 Aarthi 2 20057702 Albert Jerry 3 20057903 Arun 4 20057904 Diwakar 5 20057705 Geetha 6 20057806 Irudayaraj 7 20057707 Jaya Prakash 8 20058008 Mahesh 9 20057909 Manimaran 10 20058010 Mohammed Mukt 11 20057711 Prithivi Raja 12 20057712 Pushpak Chand 13 20057713 Ramesh 14 20057817 Smitha 15 20057718 Sri Gurumoort 16 20057719 Tamil Selvi 17 20057720 Thamotharan	CSE Wipro IT Ramco IT TCS CSE Infosy ECE Polaris CSE Ramco EEE Micros IT Micros CSE Ramco EEE CSE Ramco CSE Ramco CSE Ramco CSE Ramco CSE Ramco ECE Ramco ECE Ramco CSE	30000 28000 15000 15000 16000 25000 127500 124000 30000

Ex. No: 1.3 Regular Expression

Aim

To search for regular expression in a file using grep command in unix.

A frequent requirement is to look for a pattern or expression in a file. Unix handles this feature through **grep** and **egrep**. **grep** uses an regular expression to display lines that match and **egrep** enables searching for multiple patterns. Its usage is

grep options searchtext filename

```
THIS LINE IS THE 1ST UPPER CASE LINE IN THIS FILE.

this line is the 1st lower case line in this file.

This Line Has All Its First Character Of The Word With Upper Case.

Two lines above this line is

empty. vim Word Navigation

You may want to do several navigation in relation to words, such as:

1. e - go to the end of the current word.

2. E - go to the end of the current WORD.

3. b - go to the previous word.

4. B - go to the previous WORD.

WORD - WORD consists of a sequence of non-blank characters

Word - word consists of a sequence of letters, digits and underscores. telnet 172.16.4.256
```

demo file

Command	Function
grep this demo	Lists the lines that contains the string this
grep 'end of' demo	Quotes mandatory for text containing space
grep this demo*	Search this in multiple files
grep -c to demo	Number of occurrence of the word <i>to</i> in the file
grep -n sequence demo	Display line numbers along with matching lines
grep -v word demo	Displays lines that does not contain the text word
grep -1 vim *	Displays files containing text vim
grep -i WORD demo	Search for text ignoring case differences
grep '^[0-9]' demo	Lines that start with a number
grep '[0-9]\$' demo	Lines that end with a number
ls -l grep "^d"	Display the subdirectory names
grep -c "^\$" demo	Display count of blank lines in the file.
grep "2\$" stud	Display lines that ends in the range 20000–29999
egrep "lower UPPER" demo	Display lines that match either lower or upper
egrep "(previous current)	Display lines that match either previous word or
word" demo	current word

Result

Thus searching text patterns in files using grep has been completed successfully.

```
[sec@localhost regexpr]$ grep this demo
this line is the 1st lower case line in this
file. Two lines above this line is empty.
[sec@localhost regexpr]$ grep 'end of' demo
1. e - go to the end of the current word.
2. E - go to the end of the current WORD.
[sec@localhost regexpr]$ grep -c to demo
[sec@localhost regexpr]$ grep -n sequence demo
15:WORD - WORD consists of a sequence of non-blank characters
16: Word - word consists of a sequence of letters, digits and underscores.
[sec@localhost regexpr]$ grep -v word demo
THIS LINE IS THE 1ST UPPER CASE LINE IN THIS FILE.
this line is the 1st lower case line in this file.
This Line Has All Its First Character Of The Word With Upper Case.
Two lines above this line is
empty. vim Word Navigation
2. E - go to the end of the current
WORD. 4. B - go to the previous WORD.
WORD - WORD consists of a sequence of non-blank characters
telnet 172.16.4.256
[sec@localhost regexpr]$ grep -l vim *
demo readme
[sec@localhost regexpr]$ grep -i WORD demo
This Line Has All Its First Character Of The Word With Upper
Case. vim Word Navigation
You may want to do several navigation in relation to words, such as:
1. e - go to the end of the current word.
2. E - go to the end of the current WORD.
3. b - go to the previous word.
4. B - go to the previous WORD.
WORD - WORD consists of a sequence of non-blank characters
Word - word consists of a sequence of letters, digits and underscores.
[sec@localhost regexpr]$ grep '^[0-9]' demo
1. e - go to the end of the current word.
2. E - go to the end of the current WORD.
3. b - go to the previous word.
4. B - go to the previous WORD.
```