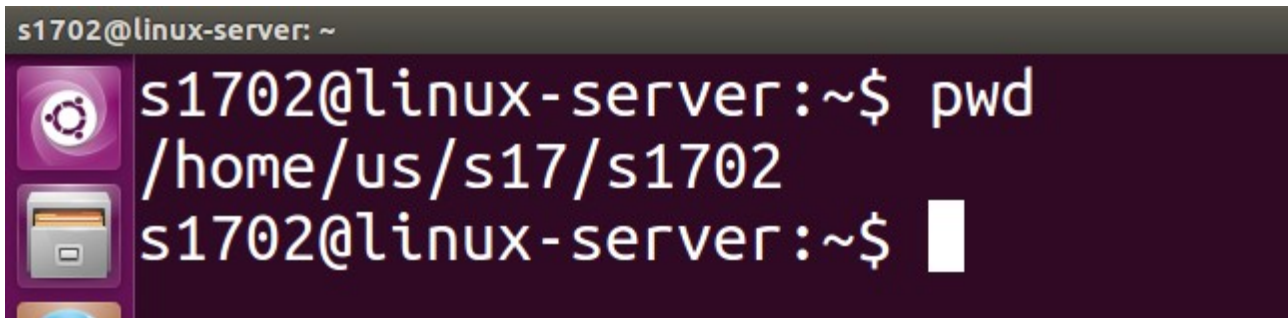


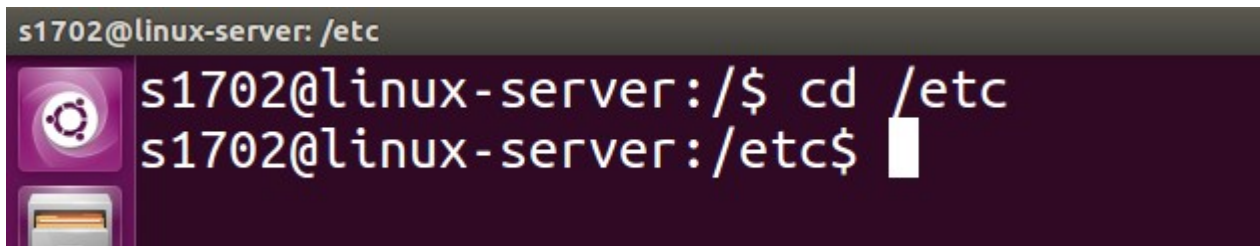
Practice Questions – Cycle 1

1 Display your current directory.



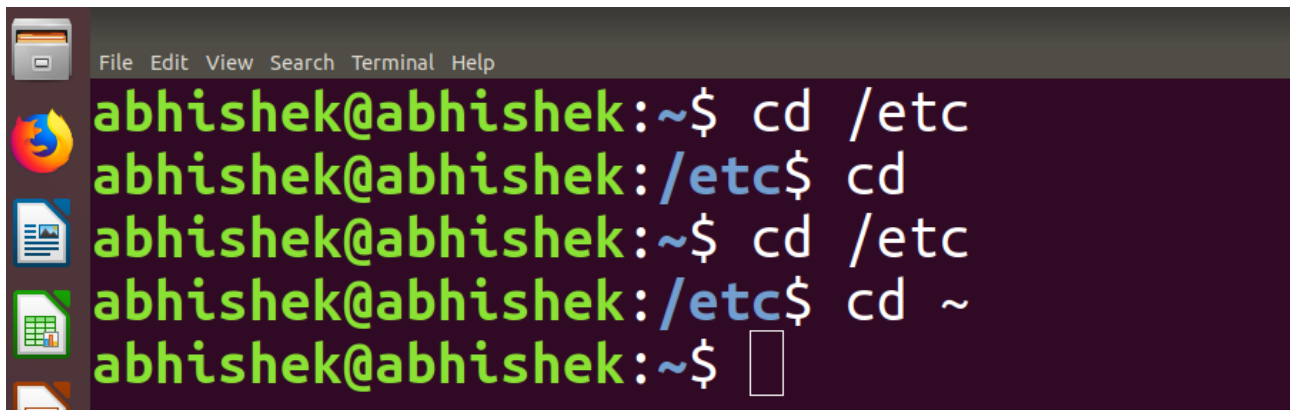
```
s1702@linux-server: ~  
s1702@linux-server:~$ pwd  
/home/us/s17/s1702  
s1702@linux-server:~$
```

2 Change to the /etc directory.



```
s1702@linux-server: /etc  
s1702@linux-server:/$ cd /etc  
s1702@linux-server:/etc$
```

3 change to your home directory using a single command.



```
abhishek@abhishek:~$ cd /etc  
abhishek@abhishek:/etc$ cd  
abhishek@abhishek:~$ cd /etc  
abhishek@abhishek:/etc$ cd ~  
abhishek@abhishek:~$
```

both cd or cd ~ can be used

4 Change to the parent directory of the current directory.



```
s1702@linux-server: /home/us/s17  
s1702@linux-server:~$ cd ..  
s1702@linux-server:/home/us/s17$
```

5 Go to the root directory.

```
File Edit View Search Terminal Help
abhishek@abhishek:~$ cd /
abhishek@abhishek:/$ ls
bin      dev      initrd.img      lib64      mnt      root      snap      tmp      vmlinuz
boot     etc      initrd.img.old  lost+found  opt      run      srv      usr      vmlinuz.old
cdrom    home     lib             media      proc     sbin     sys      var
abhishek@abhishek:/$
```

6 Give a long listing of the root directory.

```
s1702@linux-server:~$ ls -l
total 20
drwxrwxr-x 3 s1702 s1702 4096 Jan 31 21:27 abhi
drwxrwxr-x 5 s1702 s1702 4096 Feb 19 20:43 etc
drwxrwxr-x 2 s1702 s1702 4096 Jan 31 23:06 hello
drwxrwxr-x 2 s1702 s1702 4096 Feb 12 20:17 shell_progrm
drwxrwxr-x 2 s1702 s1702 4096 Feb 19 20:31 testdir
s1702@linux-server:~$
```

7 Give a listing of the last 10 files in the root directory.

```
abhishek@abhishek:/$ ls -rt | tail -10
initrd.img
sbin
boot
bin
etc
proc
dev
run
tmp
sys
abhishek@abhishek:/$
```

8 Stay where you are, and list the contents of /etc.

```
s1702@linux-server: /  
s1702@linux-server:/$ ls /etc  
acpi                  hosts.deny            profile.d  
adduser.conf          idmapd.conf           protocols  
alternatives          ifplugd               pulse  
apm                   ImageMagick           python  
apparmor              init                  python2.7  
apparmor.d            init.d                python3  
appport               initramfs-tools       python3.4  
apt                   inputrc               rc0.d  
at.deny               inserv                rc1.d  
at-spi2               inserv.conf           rc2.d  
bash.bashrc           inserv.conf.d         rc3.d  
bash_completion       iproute2              rc4.d  
bash_completion.d     ironic                rc5.d  
bindresvport.blacklist iscsi                 rc6.d  
blkid.conf            issue                 rc.local  
blkid.tab             issue.net             rcS.d  
bonobo-activation     java-7-openjdk        request-key.conf  
byobu                 kbd                   request-key.d  
ca-certificates       kernel                resolvconf  
ca-certificates.conf  kernel-img.conf       resolv.conf  
calendar              landscape             rmt
```

9 Create a directory testdir in your home directory.

```
s1702@linux-server: ~  
s1702@linux-server:~$ mkdir testdir  
s1702@linux-server:~$ ls  
abhi  etc  hello  shell_progrm  testdir  
s1702@linux-server:~$
```

10 Change to the /etc directory, stay there and create a directory newdir in your home directory(using a single command).

```
abhishek@abhishek:~$ cd /etc  
abhishek@abhishek:/etc$ mkdir ~/newdir  
abhishek@abhishek:/etc$ cd ~  
abhishek@abhishek:~$ ls  
Abhishek Desktop Documents examples.desktop Music Pictures Templates  
a.out dir1 Downloads input.txt newdir Public Videos  
abhishek@abhishek:~$
```

11 Create in one command the directories ~/dir1/dir2/dir3 (dir3 is a subdirectory from dir2, and dir2 is a subdirectory from dir1).

```
File Edit View Search Terminal Help
abhishek@abhishek:~$ mkdir -p dir1/dir2/dir3
abhishek@abhishek:~$ tree dir1
dir1
├── dir2
│   └── dir3

2 directories, 0 files
abhishek@abhishek:~$
```

12 Display the calendar for April 2019.

```
File Edit View Search Terminal Help
abhishek@abhishek:~$ cal april 2019
      April 2019
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

abhishek@abhishek:~$
```

13. Display that 'There are files in my current directory' .
The should be filled with the count of the files.

```
File Edit View Search Terminal Help
abhishek@abhishek:~$ echo There are $(ls | wc -l) files in my current directory.
There are 14 files in my current directory.
abhishek@abhishek:~$
```

14. List all the files (including hidden files) in your home directory.

```
s1702@linux-server: ~  
s1702@linux-server:~$ ls -a  
.  abhi  .bash_logout  .cache  hello  shell_progrm  testdir  
.. .bash_history .bashrc      etc     .profile .ssh          .viminfo  
s1702@linux-server:~$
```

15. Redirect the output of the above command to a new file FileList.txt.

```
s1702@linux-server: ~  
s1702@linux-server:~$ ls -a >FileList.txt  
s1702@linux-server:~$ cat FileList.txt  
.  
..  
abhi  
.bash_history  
.bash_logout  
.bashrc  
.cache  
etc  
FileList.txt  
hello  
.profile  
shell_progrm  
.ssh  
testdir  
.viminfo  
s1702@linux-server:~$
```


16. Redirect the number of lines of FileList.txt to CountFile.txt.

```
s1702@linux-server: ~  
s1702@linux-server:~$ cat FileList.txt  
.  
..  
abhi  
.bash_history  
.bash_logout  
.bashrc  
.cache  
etc  
FileList.txt  
hello  
.profile  
shell_progrm  
.ssh  
testdir  
.viminfo  
s1702@linux-server:~$ wc -l FileList.txt >CountFile.txt  
s1702@linux-server:~$ cat CountFile.txt  
15 FileList.txt  
s1702@linux-server:~$
```

17. List all the files in your home directory starting with 's'.

```
s1702@linux-server: ~  
s1702@linux-server:~$ ls -d s*  
shallow shell shell_progrm show  
s1702@linux-server:~$
```

18. List all the file-names starting with "a", "b" or "s".

```
s1702@linux-server: ~  
s1702@linux-server:~$ ls -d a* b* s*  
abhi bowl shallow shell shell_progrm show  
s1702@linux-server:~$
```

19. Create two files 'Countries.txt', containing country names and their corresponding capital cities and 'Story.txt' contains some arbitrary lines of text.

```
s1702@linux-server: ~/practice_problems
s1702@linux-server:~/practice_problems$ cat Countries.txt
India      Delhi
China      Beijing
Germany    Berlin
USA        Washington DC
England    London
Australia  Vienna
France     Paris
s1702@linux-server:~/practice_problems$ cat story.txt
Life is tale said by an idiot.
The name of king is sultha.
You cannot use three because in a sentence because ,because is a connective.
s1702@linux-server:~/practice_problems$
```

20. Convert all lowercase characters from 'Story.txt' to uppercase and store it in a file 'Capstory.txt'.

```
s1702@linux-server:~/practice_problems$ tr a-z A-Z < story.txt
LIFE IS TALE SAID BY AN IDIOT.
THE NAME OF KING IS SULTHA.
YOU CANNOT USE THREE BECAUSE IN A SENTENCE BECAUSE ,BECAUSE IS A CONNECTIVE.

s1702@linux-server:~/practice_problems$ tr a-z A-Z < story.txt >>Capstory.txt
s1702@linux-server:~/practice_problems$ cat Capstory.txt
LIFE IS TALE SAID BY AN IDIOT.
THE NAME OF KING IS SULTHA.
YOU CANNOT USE THREE BECAUSE IN A SENTENCE BECAUSE ,BECAUSE IS A CONNECTIVE.

s1702@linux-server:~/practice_problems$
```

21. Toggle the cases in 'Story.txt' and store it in a file 'Togglestory.txt'.

```
s1702@linux-server:~/practice_problems$ tr A-Za-z a-zA-Z < story.txt
lIFE IS TALE SAID BY AN IDIOT.
tHE NAME OF KING IS SULTHA.
yOU CANNOT USE THREE BECAUSE IN A SENTENCE BECAUSE ,BECAUSE IS A CONNECTIVE.
s1702@linux-server:~/practice_problems$ tr A-Za-z a-zA-Z < story.txt >> Togglestory.txt
s1702@linux-server:~/practice_problems$ cat Togglestory.txt
lIFE IS TALE SAID BY AN IDIOT.
tHE NAME OF KING IS SULTHA.
yOU CANNOT USE THREE BECAUSE IN A SENTENCE BECAUSE ,BECAUSE IS A CONNECTIVE.

s1702@linux-server:~/practice_problems$
```

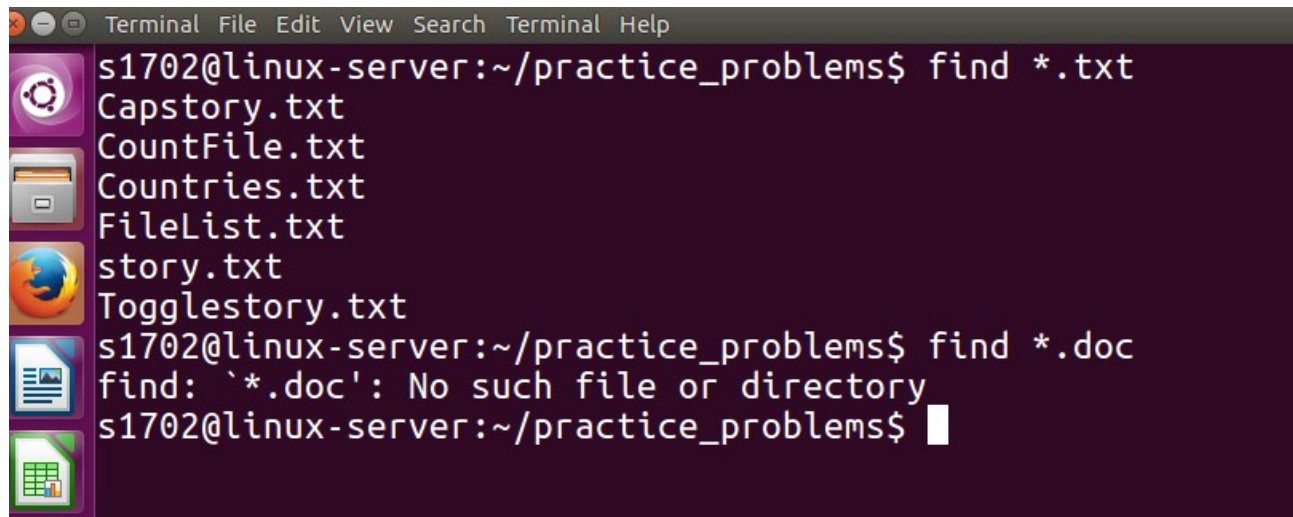
22. Sort the contents of 'Countries.txt' with Capital as the primary sort key and write the sorted output to 'SortCountry.txt'

```
File Edit View Search Terminal Help
abhishek@abhishek:~$ cat Countries.txt
India      Delhi
China      Beijing
Germany    Berlin
USA        Washington
England    London
Australia  vienna
France     Paris
abhishek@abhishek:~$ sort -k2 Countries.txt >sortCountry.txt
abhishek@abhishek:~$ cat sortCountry.txt
China      Beijing
Germany    Berlin
India      Delhi
England    London
France     Paris
Australia  vienna
USA        Washington
abhishek@abhishek:~$
```

23. Display only the capital cities from 'Countries.txt'.

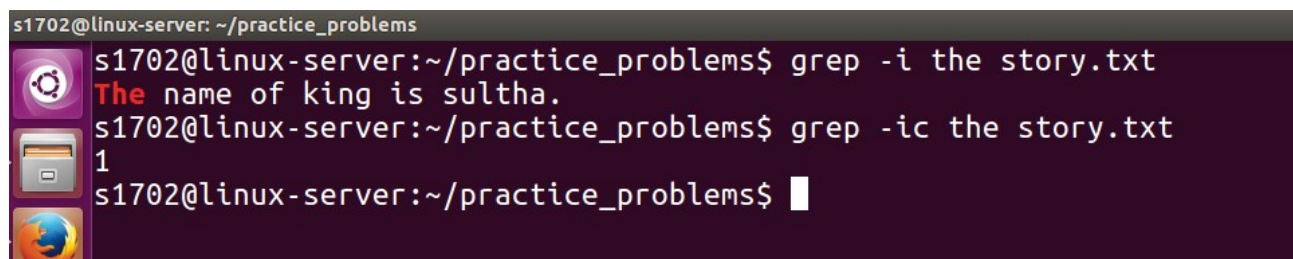
```
File Edit View Search Terminal Help
abhishek@abhishek:~$ awk '{print $2}' Countries.txt
Delhi
Beijing
Berlin
Washington
London
vienna
Paris
abhishek@abhishek:~$
```


24. Locate all '.txt' and '.doc' files in the current directory .

A terminal window with a dark purple background and a sidebar on the left containing icons for a gear, a folder, a globe, a document, and a spreadsheet. The terminal text shows a user running 'find *.txt' which lists several text files, followed by 'find *.doc' which returns an error message.

```
s1702@linux-server:~/practice_problems$ find *.txt
Capstory.txt
CountFile.txt
Countries.txt
FileList.txt
story.txt
Togglestory.txt
s1702@linux-server:~/practice_problems$ find *.doc
find: `*.doc': No such file or directory
s1702@linux-server:~/practice_problems$
```

25. Count the number of occurrence of 'the' in 'Story.txt'.

A terminal window with a dark purple background and a sidebar on the left containing icons for a gear, a folder, a globe, a document, and a spreadsheet. The terminal text shows a user running 'grep -i the story.txt' which outputs a line with 'The' in red, followed by 'grep -ic the story.txt' which outputs the count '1'.

```
s1702@linux-server: ~/practice_problems
s1702@linux-server:~/practice_problems$ grep -i the story.txt
The name of king is sultha.
s1702@linux-server:~/practice_problems$ grep -ic the story.txt
1
s1702@linux-server:~/practice_problems$
```

Submitted by
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