

CYCLE 1 REPORT

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1) Display your current directory

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ pwd
/home/ubuntu
```

2. Change to the /etc directory.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cd /etc
ubuntu@ubuntu-HP-Laptop-15-bs1xx:/etc$ |
```

3. Now, change your home directory using a single command.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cd ~
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ |
```

4. Change to the parent directory of the current directory.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~/first/second$ cd ..
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~/first$ |
```

5. Go to the directory.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~/first$ cd /
ubuntu@ubuntu-HP-Laptop-15-bs1xx:/$ |
```

6. Give a long listing of the root directory.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:/$ ls
bin  cdrom  etc  initrd.img  lib64  media  opt  root  sbin  srv  tmp  var
boot  dev  home  lib  lost+found  mnt  proc  run  snap  sys  usr  vmlinuz
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:/$ ls | tail -10
root
run
sbin
snap
srv
sys
tmp
usr
var
vmlinuz
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:/$ ls /etc
acpi                    dictionaries-common    issue                  opt                    shadow
adduser.conf           dnsmasq.d             issue.net             os-release            shadow-
alternatives          doc-base              kbd                   pam.conf              shells
anacrontab            dpkg                  kernel               pam.d                 signond.conf
apg.conf              drirc                 kernel-img.conf      papersize             signon-ui
apm                   emacs                 kerneloops.conf     passwd               skel
apparmor              environment            ldap                  passwd-              speech-dispatcher
apparmor.d            firefox               ld.so.cache          pcmcia                ssh
appost                fonts                 ld.so.conf           perl                  ssl
appstream.conf        fstab                 ld.so.conf.d         pki                   subgid
apt                   fuse.conf             legal                pm                     subgid-
aptdaemon             fwupd.conf            libao.conf            pnm2ppa.conf          subuid
at-spi2               gai.conf              libaudit.conf        polkit-1              subuid-
avahi                 gconf                 libbl-3              popularity-contest.conf sudoers
bash.bashrc           gdb                   libpaper.d           ppp                   sudoers.d
bash_completion       ghostscript           libreoffice          profile               sysctl.conf
bash_completion.d     gnome                 lightdm              profile.d              sysctl.d
bindresvport.blacklist gnome-app-install     lintianrc            protocols             systemd
binfmt.d              groff                 locale.alias         pulse                 terminfo
bluetooth             group                 locale.gen           python                 thermald
brlapi.key            group-                localtime            python2.7              thunderbird
brltty                grub.d                logcheck              python3                 timezone
brltty.conf           gshadow               login.defs            python3.5               tmpfiles.d
ca-certificates       gshadow-              logrotate.conf       rc0.d                  ucf.conf
ca-certificates.conf gss                   lsb-release          rc1.d                  udev
calendar              gtk-2.0               ltrace.conf          rc2.d                  udisks2
chatscripts           gtk-3.0               machine-id            rc3.d                  ufw
compizconfig          guest-session          magic                 rc4.d                  updatedb.conf
console-setup          hdparm.conf           magic.mime            rc5.d                  update-manager
cracklib              host.conf              mailcap               rc6.d                  update-motd.d
cron.d                hostname              mailcap.order         rc.local               update-notifier
cron.daily             hosts                  manpath.config        rcS.d                  UPower
cron.hourly            hosts.allow            mime.types             resolvconf             upstart-xsessions
cron.monthly           hosts.deny             mke2fs.conf           resolv.conf            usb_modeswitch.conf
cronstab              hp                     modprobe.d            rmt                    usb_modeswitch.d
cron.weekly            ifplugd               modules               rpc                     vim
cups                  iftab                 modules-load.d        rsyslog.conf           vtrgb
cupshelpers           ImageMagick-6         mtabs                 rsyslog.d              wgetrc
dbus-1                init                  mtools.conf           sane.d                 whoopsie
dconf                 init.d                nanorc                security               wpa_supplicant
debconf.conf          initramfs-tools       network               selinux                x11
debian_version        inserv                NetworkManager        sensors3.conf          xdg
default               inserv.conf           networks              sensors.d               xml
deluser.conf          inserv.conf.d         newt                   services                zsh_command_not_found
depmod.d              iproute2              nsswitch.conf         sgml
```

9. Create a directory tstdir in your home directory.

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ mkdir tstdir
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ ls
allu  capstory.txt  Desktop  FileList.txt  ls.doc  Pictures  Story.txt  testing  Videos
anju  Capstory.txt  dirl     first         mult_stack.c  Public  string.c  test.txt
anu   countfile.txt Documents  foss          Music       set       s.txt     tet.txt
a.out CountFile.txt Downloads  graph1.c     new         show      symlink   Togglestory.txt
appu  countries.txt examples.desktop graph1.c.save newdir      SortCountry.txt Templates  ToggleStory.txt
bst.c Countries.txt filelist.txt  graph.c      one         story.txt  testdir   tstdir
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cd /etc
ubuntu@ubuntu-HP-Laptop-15-bslxx:/etc$ mkdir ~/newdir
ubuntu@ubuntu-HP-Laptop-15-bslxx:/etc$ cd ~
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ ls
allu  capstory.txt  Desktop  FileList.txt  ls.doc  one  story.txt  testdir  tstdir
anju  Capstory.txt  dirl     first         mult_stack.c  Pictures  Story.txt  testing  Videos
anu   countfile.txt Documents  foss          Music       set       s.txt     tet.txt
a.out CountFile.txt Downloads  graph1.c     new         show      symlink   Togglestory.txt
appu  countries.txt examples.desktop graph1.c.save newdir      SortCountry.txt Templates  ToggleStory.txt
bst.c Countries.txt filelist.txt  graph.c      nwdir
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ mkdir -p ~/dir1/dir2/dir3
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cd dir1
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~/dir1$ ls
dr2
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~/dir1$ ls dr2
dr3
```

12. Display the calendar for april 2019.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cal 4 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
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ echo "There are $(ls | wc -l) files in my current directory"
There are 51 files in my current directory
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ ls -a ~
.          .bash_history  .cache          .gnupg          .ICEauthority  .local           .profile        .testdir
..         .bash_logout  .capstory.txt   .gnupg          .ICEauthority  .local           .Public         .testing
allu       .compiz       countfile.txt   .gphoto         .ls.doc        mult_stack.c     .set            tet.txt
anju      .config       countries.txt    .graph1.c       .nano          new              .show           ToggleStory.txt
anu       countfile.txt FileList.txt     .graph1.c.save  .newdir        newdir           .SortCountry.txt
a.out     CountFile.txt first            .graph1.c       .newdir        newdir           .Story.txt      Tstdir
appu      countries.txt foss             .graph1.c       .newdir        newdir           .Story.txt      Videos
.bash_history  Countries.txt .gconf          .graph1.c       .newdir        newdir           .string.c       .Xauthority
.bash_logout  Desktop      .gnupg          .gphoto         .newdir        newdir           .s.txt          .xsession-errors
.bashrc       dir1         .gphoto         .graph1.c       .newdir        newdir           .sudo_as_admin_successful
bst.c         .dmrc       graph1.c        graph1.c.save   .one           .symlink        .Templates      .xsession-errors.old
.cache        Documents   graph1.c.save   Pictures         .Pictures      .Templates
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ ls -a ~ > Filelist.txt
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cat Filelist.txt
.
..
allu
anju
anu
a.out
appu
.bash_history
.bash_logout
.bashrc
bst.c
.cache
capstory.txt
Capstory.txt
.compiz
.config
countfile.txt
CountFile.txt
countries.txt
Countries.txt
Desktop
dir1
.dmrc
Documents
Downloads
dr1
```

16. Redirect the number of lines of Filelist.txt to Countfile.txt.

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ (wc -l < Filelist.txt) > Countfile.txt
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ cat Countfile.txt
72
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ ls s*
set  show  story.txt  string.c  s.txt  symlink
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ ls [abs]*
a.out  bst.c  set  show  story.txt  string.c  s.txt  symlink
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ nano countries.txt
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cat countries.txt
Albania Tirana
Bahrain Manama
France Paris
India NewDelhi
Cuba Havana
Peru Lima
Serbia Belgrade
Mexico Mexicocity
Kuwait Kuwaitcity
Denmark Copenhagen
Nepal Kathmandu
Uruguay Montevideo
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ nano story.txt
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cat story.txt
One day,old mother hubbards dog was hungry.He barked at mother hubbard for a bone.She went to her cupboard and opened "oh
dear",said mother hubbard."I am sorry,my deardog.There are no morebones left in the cupboard",added mother hubbard.There
fore mother hubbard could not givea bone to the dog.The poordog whimpered in disappointment
```

20. Convert all lower case characters from 'Story.txt' to upper case and store in a file 'Capstory.txt'.

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ (tr a-z A-Z < story.txt) > capstory.txt
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cat capstory.txt
ONE DAY,OLD MOTHER HUBBARDS DOG WAS HUNGRY.HE BARKED AT MOTHER HUBBARD FOR A BONE.SHE WENT TO HER CUPBOARD AND OPENED "OH
DEAR",SAID MOTHER HUBBARD."I AM SORRY,MY DEARDOG.THERE ARE NO MOREBONES LEFT IN THE CUPBOARD",ADDED MOTHER HUBBARD.THERE
FORE MOTHER HUBBARD COULD NOT GIVEA BONE TO THE DOG.THE POORDOG WHIMPERED IN DISAPPOINTMENT
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ (tr A-Za-z a-zA-Z < story.txt) > togglestory.txt
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cat togglestory.txt
ONE DAY,OLD MOTHER HUBBARDS DOG WAS HUNGRY.he barked AT MOTHER HUBBARD FOR A BONE.sHE WENT TO HER CUPBOARD AND OPENED "OH
DEAR",SAID MOTHER HUBBARD."i AM SORRY,MY DEARDOG.tHERE ARE NO MOREBONES LEFT IN THE CUPBOARD",ADDED MOTHER HUBBARD.tHERE
FORE MOTHER HUBBARD COULD NOT GIVEA BONE TO THE DOG.the POORDOG WHIMPERED IN DISAPPOINTMENT
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ (sort -k2 countries.txt) > Sortcountry.txt
ubuntu@ubuntu-HP-Laptop-15-bslxx:~$ cat Sortcountry.txt
Serbia Belgrade
Denmark Copenhagen
Cuba Havana
Nepal Kathmandu
Kuwait Kuwaitcity
Peru Lima
Bahrain Manama
Mexico Mexicocity
Uruguay Montevideo
India NewDelhi
France Paris
Albania Tirana
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ awk '{print $2}' countries.txt
Tirana
Manama
Paris
NewDelhi
Havana
Lima
Belgrade
Mexicocity
Kuwaitcity
Copenhagen
Kathmandu
Montevideo
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ awk '{print $2}' countries.txt
Tirana
Manama
Paris
NewDelhi
Havana
Lima
Belgrade
Mexicocity
Kuwaitcity
Copenhagen
Kathmandu
Montevideo
```

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

```
ubuntu@ubuntu-HP-Laptop-15-bs1xx:~$ grep -o the story.txt | wc -l
7
```

Conclusion:

Cycle 1 practice questions is completed and output verified.