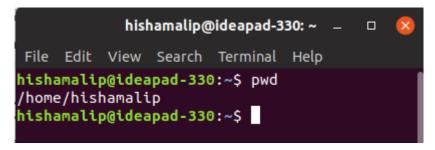
ASSIGNMENT – 3 **Practice Questions – Cycle 1 [Answers]**

1. Display your current directory.

Command: pwd

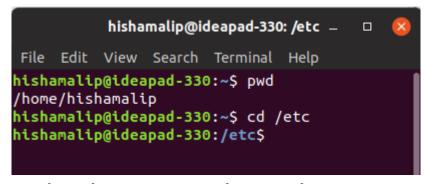
Output:



2. Change to the /etc directory.

Command: cd/etc

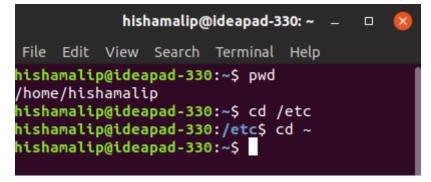
Output: (directory changed to /etc directory)



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

Command: cd ~

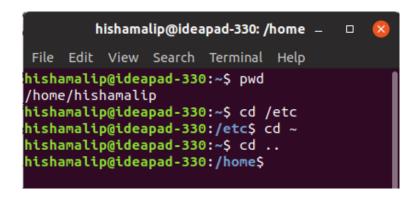
Output: (directory changed to home directory)



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

Command: cd..

Output : (directory changed to parent directory)



5. Go to the root directory.

Command: cd/

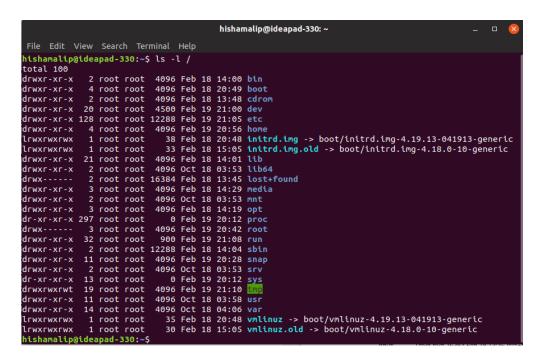
Output: (directory changed to root directory)



6. Give a long listing of the root directory.

Command: ls-l/

Output:



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

Command: ls / | tail

Output:

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

Command: ls /etc

Output:

```
File Edit View Search Terminal Help
ilshamallp@ideapad-330:~$ ls /etc
deblan_version
                                                                                                                                                                                                           magic.mime
malicap.order
malicap.order
manpath.config
mime.types
mke2fs.conf
modprobe.d
modules
modules
modules-load.d
mtab
mtools.conf
nanorc
                                                                                                                                                                                                                                                                                               profile.d
protocols
pulse
python2.7
python3
python3.6
rc0.d
rc1.d
rc2.d
rc3.d
cpi
dduser.conf
                                                                                                                                                   ifplugd
ImageMagick-6
init
init.d
initramfs-tools
inputrc
insserv.conf.d
iproute2
issue.net
kernel
                                                                             deluser.conf
depmod.d
dhcp
dictionaries-common
 pport
ppstream.conf
                                                                             emacs
environment
firefox
fonts
fprintd.conf
fstab
fuse.conf
fwund
                                                                                                                                                                                                                                                                                                                                                                  tmpfiles ucf.conf
                                                                                                                                                   issue.net
kernel-img.conf
kerneloops.conf
ldap
ld.so.cache
ld.so.conf
ld.so.conf
legal
libao.conf
libaudut.conf
libotckdey
                                                                                                                                                                                                           nanorc
netplan
network
networkd-dispatcher
NetworkManager
networks
pash.bashrc
pash_completion
pash_completion.d
pash_completion.d
pindresyport.blacklist
                                                                                                                                                                                                                                                                                                                                                               udev
udisks2
ufw
updatedb.conf
update-manager
update-motd.d
update-notifier
UPower
usb_modeswitch.conf
usb_modeswitch.d
                                                                                                                                                                                                            newt
nsswitch.conf
                                                                                                                                                                                                                                                                                                  rpc
rsyslog.conf
orltty
orltty.conf
                                                                                                                                                                                                            openvon
                                                                           geoclue
ghostscript
glvnd
gnome
groff
group
group-
grub.d
gshadow
                                                                                                                                                                                                                                                                                                 same.d
securetty
security
selinux
sensors3.conf
sensors.d
services
shadow
shadow-
shells
                                                                                                                                                                                                            openvpn
opt
os-release
PackageKit
pam.conf
pam.d
papersize
passwd
ca-certificates
                                                                                                                                                                                                                                                                                                                                                                 usb_modeswitch.d
vdpau_wrapper.cfg
                                                                                                                                                                                                                                                                                                                                                               vdpau_wra
vim
vtrgb
vulkan
wgetrc
whoopsie
wildmidi
 ron.d
ron.daily
ron.hourly
ron.monthly
                                                                                                                                                                                                             passwd-
passwd-
                                                                                                                                                   localtime
logcheck
login.defs
logrotate.conf
logrotate.d
lsb-release
ltrace.conf
machine-id
machine-info
                                                                                                                                                                                                                                                                                                                                                                 wpa_supplicant
X11
                                                                               ashadow
                                                                             gss
gtk-3.0
hdparm.conf
host.conf
hostname
hosts
hosts.allow
                                                                                                                                                                                                             perl
pki
                                                                                                                                                                                                                                                                                                 speech-dispatcher
ssh
ssl
                                                                                                                                                                                                                                                                                                                                                              xdg
zsh_command_not_found
  rontab
                                                                                                                                                                                                            pm
pnm2ppa.conf
polkit-1
popularity-contest.conf
    on.weeklv
```

9. Create a directory testdir in your home directory.

Command: mkdir ~/testdir

Output: (a directory named testdir is created in home directory)

```
hishamalip@ideapad-330:~

File Edit View Search Terminal Help
hishamalip@ideapad-330:~$ mkdir ~/testdir
hishamalip@ideapad-330:~$ ls
Desktop examples.desktop Public testdir
Documents Music snap Videos
Downloads Pictures Templates
hishamalip@ideapad-330:~$
```

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

Command: cd etc

Output: (a directory named testdir is created in home directory from /etc directory)

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

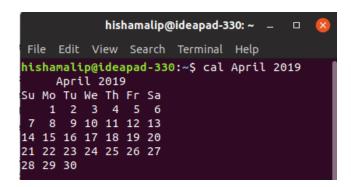
Command: mkdir-p~/dir1/dir2/dir3

Output : (directories are created as dir3 is subdirectory of dir2 and dir2 is subdirectory of dir1)

12. Display the calendar for April 2019.

Command: cal April 2019

Output:



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

Command : echo "There are `find | wc -w` in my directory" Output :

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

Command : ls -a ~ Output :

```
hishamalip@ideapad-330: ~
                                                                File Edit View Search Terminal Help
hishamalip@ideapad-330:~$ ls -a ~
               Documents
                                 .mozilla .ssh
               Downloads
                                 Music
                                           .sudo as admin successful
.bash_history
               examples.desktop newdir
                                           .temp
.bash_logout
               .gitconfig
                                 Pictures Templates
                                 .pki
               .gnome
.bashrc
                                           testdir
                                 .profile Videos
.cache
               .gnupg
.config
                                 Public
               .ICEauthority
               .local
Desktop
                                 snap
hishamalip@ideapad-330:~$
```

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

Command : ls -a ~ >> FileList.txt

Output: (Output of 'ls -l' is saved into a file named FileList.txt

```
File Edit View Search Terminal Help
hishamalip@ideapad-330:~$ ls -a ~ >> FileList.txt
hishamalip@ideapad-330:~$
hishamalip@ideapad-330:~$ cat FileList.txt
.bash_history
.bash_logout
.bashrc
.cache
.config
CountFile.txt
Desktop
Documents
Downloads
examples.desktop
FileList.txt
.gitconfig
.gnome
.gnupg
.ICEauthority
.local
.mozilla
Music
newdir
Pictures
.pki
.profile
Public
snap
.ssh
.sudo_as_admin_successful
.temp
Templates
testdir
Videos
hishamalip@ideapad-330:~$
```

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

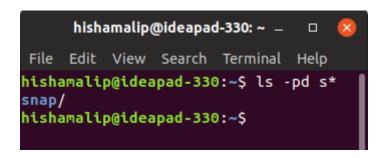
Command : cat FileList.txt | wc -w | cat >> CountFile.txt

Output: (Number of lines of FileList.txt is saved into a file named CountFile.txt)

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

Command: ls -pd s*

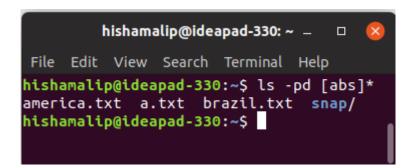
Output:



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

Command: ls -pd [abs]*

Output:



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

#To create Countries.txt

Command: cat >> Countries.txt

India NewDelhi
US Washington
France Paris
Japan Tokyo
UK London
Italy Rome

```
hishamalip@ideapad-330: ~ □ ☑

File Edit View Search Terminal Help

hishamalip@ideapad-330:~$ cat >> Countries.txt

India NewDelhi

US Washington

France Paris

Japan Tokyo

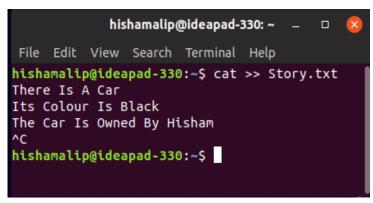
UK London

Italy Rome

^C

hishamalip@ideapad-330:~$
```

#To create Story.txt
Command : cat >> Story.txt
There Is A Car
Its Colour Is Black
The Car Is Owned By Hisham



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

Command : cat Story.txt | tr '[:lower:]' | cat > Capstory.txt

Output : (All lowercase characters from Story.txt is changed into uppercase and stored in a file named Capstory.txt)

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

Command : cat Story.txt | tr '[:lower:][:upper:]' '[:upper:][:lower:]' | cat > Togglestory.txt

Output : (All charachers in Story.txt is toggled its case and output is stored in a file named

Togglestory.txt)

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

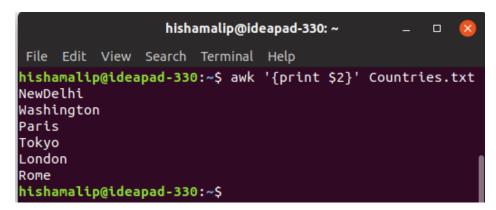
Command: sort -k2 Countries.txt

#(-k2 will select column two as sorting criteria)

Output : (The content of Countries.txt is sorted with Capitals as primary sort key and output is stored in SortCountry.txt)

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

Command : awk '{print \$2}' Countries.txt (mawk select a particular column) Output :



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

Command : ls *.txt *.doc

Output:

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

Command: grep -i --count "the" Story.txt (-i will ignore case and --count will count the occurence of specified string)

Output: ('the' is ocuuring 2 times in Story.txt)



Result:

The usage of certain bash commands are understood and output is obtained.

Submitted by:

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