Sushil Mhetre Assignment Day 1

> [admin@sushil ~]\$ Is \$HOME

Using UNIX Basic Commands:

1.	To display the current working directory, the command is:
	pwd
	The output is as follows.
>	[admin@sushil]\$ pwd
	/home/admin/
	, nome, admin,
2	Display the math to and many of your HONAE dispartem.
	Display the path to and name of your HOME directory.
	[admin@sushil ~]\$ echo \$HOME
	/home/admin
3.	Display the login name using which you have logged into the system
>	[admin@sushil ~]\$ whoami
	admin
4.	Display the hidden files of your current directory.
>	[admin@sushil ~]\$ Is -a
	bash_logout .cache Documents .local Pictures Videos
	bash_profile .config Downloads .mozilla Public .vim .bash_history .bashrc
	, = =======
5.	List the names of all the files in your home directory.

- 6. Using the long listing format to display the files in your directory.
- > [admin@sushil ~]\$ Is -I

total 0

drwxr-xr-x. 3 admin admin 45 Jan 27 17:15 Desktop

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Documents

drwxr-xr-x. 2 admin admin 50 Aug 25 2022 Downloads

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Music

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Pictures

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Public

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Templates

drwxr-xr-x. 2 admin admin 6 Aug 25 2022 Videos

- 7. List the files beginning with chap followed by any number or any lower case alphabet. (Example, it should display all files whose names are like chap1, chap2, chap3, chapa,ahapb,chapc,......)
- [admin@sushil Desktop]\$ Is | grep "^chap[0-9a-z]"

chap1

chap2

chap3

chapd

- 8. Give appropriate command to create a directory called C_prog under your home directory. (Note: Check the directory using ls)
- [admin@sushil Desktop]\$ mkdir ~/C_prog
 [admin@sushil Desktop]\$ ls ~
 C_prog Documents Music Public Videos
 Desktop Downloads Pictures Templates
- Create the following directories under your home directory. (Note: Check using Is) newdir , newdirectory
- [admin@sushil Desktop]\$ mkdir ~/newdir ~/newdirectory [admin@sushil Desktop]\$ Is ~

C_prog Documents Music newdirectory Public Videos Desktop Downloads newdir Pictures Templates

- 10. List the names of all the files, including the contents of the sub directories under your home directory.
- > [admin@sushil Desktop]\$ Is -R ~ /home/admin: C_prog Documents Music newdirectory Public Videos Desktop Downloads newdir Pictures /home/admin/C_prog: /home/admin/Desktop: test_python variables.sh /home/admin/Desktop/variables.sh: /home/admin/Documents: /home/admin/Downloads: photo-1603366615917-1fa6dad5c4fa.jpg /home/admin/Music: /home/admin/newdir: /home/admin/newdirectory: /home/admin/Pictures: /home/admin/Public: /home/admin/Templates:
- 11. Remove the directory called newdirectory from your working directory.
- > [admin@sushil Desktop]\$ rmdir ~/newdirectory

/home/admin/Videos:

- 12. Create a directory called temp under your home directory.
- [admin@sushil ~]\$ mkdir ~/temp [admin@sushil ~]\$ ls C_prog Documents Music Pictures temp Videos Desktop Downloads newdir Public Templates
- 13. Remove the directory called newdir under your home directory and verify the above with the help of the directory listing command.
- [admin@sushil ~]\$ rmdir ~/newdir

[admin@sushil ~]\$ Is

C_prog Documents Music Public Templates

Desktop Downloads Pictures temp Videos

- 14. Create another directory directorynew under the temp directory.
- [admin@sushil ~]\$ mkdir ~/temp/directorynew [admin@sushil ~]\$ Is temp directorynew
- 15. Change the directory to your home directory.
- [admin@sushil temp]\$ cd ~ [admin@sushil ~]\$
- 16. From your home directory, change the directory to directorynew using relative and absolute path.
- Relative
- [admin@sushil ~]\$ cd temp/directorynew [admin@sushil directorynew]\$
- Absolute
- [admin@sushil ~]\$ cd ~/temp/directorynew [admin@sushil directorynew]\$

- 17. Remove the directory called c_prog, which is in your home directory.
- [admin@sushil ~]\$ rmdir ~/C_prog
- 18. Change to the directory /etc and display the files present in it.
- > [admin@sushil ~]\$ cd /etc [admin@sushil etc]\$ Is

accountsservice gshadow popt.d adjtime gshadowprintcap aliases profile gss host.conf profile.d alsa alternatives hostname protocols anacrontab hosts pulse appstream.conf hp qemu-ga asound.conf inittab ras at.deny inputrc rc.d audit iproute2 rc.local authselect redhat-release iscsi avahi issue

request-key.conf bash_completion.d issue.d request-key.d

bashrc issue.net resolv.conf

bindresvport.blacklist kdump rpc binfmt.d kdump.conf rpm bluetooth kernel rsyncd.conf brlapi.key keys rsyslog.conf brltty keyutils rsyslog.d krb5.conf rwtab.d brlttv.conf centos-release krb5.conf.d samba chromium ld.so.cache sane.d chrony.conf ld.so.conf sasl2

chrony.keys ld.so.conf.d security cifs-utils libaudit.conf selinux libblockdev services cni

cockpit libibverbs.d sestatus.conf containers libnl setroubleshoot

cron.d libpaper.d sgml libreport cron.daily shadow cron.deny libssh shadowcron.hourly libuser.conf shells cron.monthly locale.conf skel

crontab localtime smartmontools

cron.weekly login.defs sos

crypto-policies logrotate.conf speech-dispatcher

crypttab logrotate.d ssh csh.cshrc lsm ssl csh.login lvm sssd

cups machine-id statetab.d cupshelpers machine-info subgid dbus-1 magic subgid-dconf mailcap subuid

debuginfod makedumpfile.conf.sample subuid-

defaultman_db.confsudo.confdepmod.dmcelogsudoersdhcpmicrocode_ctlsudoers.d

DIR_COLORS mime.types sudo-ldap.conf
DIR_COLORS.lightbgcolor mke2fs.conf sysconfig

dnf modprobe.d sysctl.conf
dnsmasq.conf modules-load.d sysctl.d
dnsmasq.d motd systemd
dracut.conf motd.d system-release

dracut.conf motd.d system-release dracut.conf.d mtab system-release-cpe

egl multipath terminfo enscript.cfg nanorc tmpfiles.d environment netconfig tpm2-tss

ethertypes NetworkManager trusted-key.key

exports networks tuned favicon.png nftables udev filesystems nsswitch.conf udisks2

firefox nsswitch.conf.bak updatedb.conf

firewalld nvme UPower

flatpak openIdap usb_modeswitch.conf

fonts opt vconsole.conf foomatic os-release vimrc fprintd.conf ostree virc

fstab PackageKit vmware-tools

fuse.conf pam.d vulkan fwupd papersize wgetrc gcrypt passwd wireplumber

gdm passwd- wpa_supplicant

geoclue pbm2ppa.conf X11 glvnd pinforc xattr.conf

```
gnupg
               pkcs11
                               xdg
GREP_COLORS
                   pkgconfig
                                    xml
              pki
groff
                           yum
               plymouth
                                yum.conf
group
group-
               pm
                             yum.repos.d
                pnm2ppa.conf
grub2.cfg
grub.d
               polkit-1
```

19. List the names of all the files that begin with a dot in the /usr/bin directory.

> [admin@sushil ~]\$ Is -a | grep "\."

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.bash_history

 $. bash_logout$

.bash_profile

.bashrc

.cache

.config

.lesshst

.local

.mozilla

.vim

.viminfo

20. Create a file first.unix with the following contents.

Hi! Good Morning everybody.

Welcome to the First exercise on UNIX.

Hope you enjoy doing the assignments.

➤ [admin@sushil ~]\$ echo -e "Hi! Good Morning everybody.\nWelcome to the First exercise on UNIX.\nHope you enjoy doing the assignments." > first.unix

[admin@sushil ~]\$ Is -I first.unix

-rw-r--r-. 1 admin admin 105 Jan 28 01:31 first.unix

[admin@sushil ~]\$ cat first.unix

Hi! Good Morning everybody.

Welcome to the First exercise on UNIX.

Hope you enjoy doing the assignments.

21. Copy the file first.unix in your home directory to first.unics.

(Note: checked using ls, first.unix file also should exist along with first.unics)

[admin@sushil ~]\$ cp ~/first.unix ~/first.unics
 [admin@sushil ~]\$ Is ~
 Desktop Downloads first.unix Pictures temp Videos
 Documents first.unics Music Public Templates

- 22. List the contents of first.unix and first.unics with a single command.
- ➢ [admin@sushil ~]\$ cat first.unix first.unics Hi! Good Morning everybody. Welcome to the First exercise on UNIX. Hope you enjoy doing the assignments. Hi! Good Morning everybody. Welcome to the First exercise on UNIX. Hope you enjoy doing the assignments.
- 23. Create a new directory under the temp directory.
- [admin@sushil ~]\$ mkdir ~/temp/mydir [admin@sushil ~]\$ ls temp directorynew mydir
- 24. From your home directory, copy all the files to the directory created under the temp sub directory.
- [admin@sushil ~]\$ rsync -av --exclude='temp' ~/ temp/mydir/
- 25. Move the file first.unix to the directory temp as second.unix
- [admin@sushil ~]\$ mv first.unix ~/temp/second.unix [admin@sushil ~]\$ Is temp directorynew mydir second.unix
- 26. Remove the file called first.unics from the home directory.
- > [admin@sushil ~]\$ rm ~/first.unics
- 27. Change your directory to temp and issue the command rm *. What do you observe?

> [admin@sushil ~]\$ cd temp

[admin@sushil temp]\$ rm *

rm: cannot remove 'directorynew': Is a directory

rm: cannot remove 'mydir': Is a directory

- 28. Move all files whose names end with a, c and o to the HOME directory.
- > [admin@sushil temp]\$ mv temp/*.{a,c,o} ~/

mv: cannot stat 'temp/*.a': No such file or directory

mv: cannot stat 'temp/*.c': No such file or directory

mv: cannot stat 'temp/*.o': No such file or directory

- 29. Copy all files that end with a 'UNIX' to the temp directory.
- > [admin@sushil ~]\$ cp *UNIX temp/

cp: cannot stat '*UNIX': No such file or directory

- 30. Issuing a single command, remove all the files from the directory temp and the directory itself.
- [admin@sushil ~]\$ rm -r temp
 [admin@sushil ~]\$ ls
 Desktop Downloads Music Public Videos
 Documents Pictures Templates
- 31. Try commands cp and mv with invalid number of arguments and note the results.
- [admin@sushil Desktop]\$ cp

cp: missing file operand

Try 'cp --help' for more information.

[admin@sushil Desktop]\$ cp ~/

cp: missing destination file operand after '/home/admin/'

Try 'cp --help' for more information.

[admin@sushil Desktop]\$ mv

mv: missing file operand

Try 'mv --help' for more information.

[admin@sushil Desktop]\$ mv ~/

mv: missing destination file operand after '/home/admin/'

Try 'mv --help' for more information.

[admin@sushil Desktop]\$

32. Use the cat command to create a file friends, with the following data:

Madhu	6966456	09/07/68
Jamil	2345215	08/09/67
Ajay	5546785	01/04/66
Mano	7820022	09/07/68
David	8281292	09/09/60
Simmi	7864563	12/12/70
Navin	2224311	30/05/68

The fields should be separated by a tab.

[admin@sushil ~]\$ cat > friends << EOF

Madhu	6966456	09/07/68		
Jamil	2345215	08/09/		
Ajay	5546785	01/04/66		
Mano	7820022	09/07/68		
David	8281292	09/09/60		
Simmi	7864563	12/12/70		
Navin	2224311	30/05/68		
EOF				

[admin@sushil ~]\$ cat friends

- 33. Display contents of the file friends.
- > [admin@sushil ~]\$ cat friends

Madhu	6966456	09/07/68
Jamil	2345215	08/09/
Ajay	5546785	01/04/66
Mano	7820022	09/07/68
David	8281292	09/09/60
Simmi	7864563	12/12/70
Navin	2224311	30/05/68

- 34. Copy contents of friends to newfriend without using the cp command.
- > admin@sushil ~]\$ cat friends > newfriend
- 35. Display contents of the file friends and newfriends in a single command.
- > admin@sushil ~]\$ cat friends newfriend
- 36. Find all users currently working on the system and store the output in a file named as users.
- [admin@sushil Desktop]\$ who > users [admin@sushil Desktop]\$ cat users admin seat0 2025-01-27 12:48 (login screen) admin tty2 2025-01-27 12:48 (tty2)
- 37. Append contents of friends file to the file, users.
- > [admin@sushil ~]\$ cat friends >> users
- 38. Display current system date and time and record your observations. How is the time displayed?
- [admin@sushil Desktop]\$ date Tue Jan 28 12:50:44 AM IST 2025
- 39. Display calendar for the month and year of your birth.

[admin@sushil Desktop]\$ cal 03 2002
 March 2002
 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

40. Try following commands and record your observations.

date "+ %"

31

invalid format

date "+%m"

▶ 01

date "+%D"

▶ 01/09/2025

date "+%/%Training Activity"

invalid format

date "+%Training Activity"

invalid format

date "+%r"

> 12:55:51 AM

Using Pipes and Filters:

- 1: Redirect the content of the help document ls, into a file called as Isdoc.
- > [admin@sushil Desktop]\$ man ls > lsdoc
 - 2: Display the content of the Isdoc page wise.

- > [admin@sushil Desktop]\$ less Isdoc
 - 3: Create a file data.txt using input redirection.
- [admin@sushil Desktop]\$ cat > data.txt hello there
- 4: Display data.txt.
- [admin@sushil Desktop]\$ cat data.txt hello there
- 5: Remove the file data.txt.
- > [admin@sushil Desktop]\$ rm data.txt
 - 6: Use error redirection to display data.txt, if any error stores it in errorlog.txt
- > [admin@sushil Desktop]\$ cat data.txt 2> errorlog.txt
- 7: Display errorlog file.
- > [admin@sushil Desktop]\$ cat errorlog.txt cat: data.txt: No such file or directory