Using UNIX Basic Commands:

/home/admin

1. To display the current working directory, the command is:

```
pwd
The output is as follows. →

[admin@hostname01 ~]$ pwd
```

- 2. Display the path to and name of your HOME directory.
 - → [admin@hostname01 ~]\$ echo \$HOME /home/admin
- 3. Display the login name using which you have logged into the system
 - → admin@hostname01 ~]\$ whoami
- 4. Display the hidden files of your current directory.
 - → [admin@hostname01 ~]\$ Is -a
 - . . .bash_logout .cache Documents .mozilla Public
 - .. .bash_profile .config Downloads Music Templates
- 5. List the names of all the files in your home directory.
 - → [admin@hostname01 ~]\$ Is \$HOME

Desktop Documents Downloads Music Pictures Public Templates Videos

- 6. Using the long listing format to display the files in your directory.
 - → [admin@hostname01 ~]\$ Is -I

```
total 0
drwxr-xr-x. 2 admin admin 6 Dec 24 19:53 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@hostname01 Desktop]\$ ls | grep "^chap[0-9a-z]" chap2

chapb

chapd

[admin@hos

- 8. Give appropriate command to create a directory called C_prog under your home directory. (Note: Check the directory using ls)
 [admin@hostname01 Desktop]\$ mkdir ~/Cprog
- Create the following directories under your home directory. (Note: Check using Is)
 newdir
 newdirectory
 - → [admin@hostname01 Desktop]\$ mkdir ~/ newdir ~/ newdirectory
- 10. List the names of all the files, including the contents of the sub directories under your home directory.

ightarrow [admin@hostname01 Desktop]\$ ls -R $^{\sim}$

/home/admin:

Cprog Documents Music Public Videos Desktop Downloads Pictures Templates

/home/admin/Cprog:

/home/admin/Desktop: 1chap 2chap chap2 chapb chapd newdir newdirectory

- 11. Remove the directory called newdirectory from your working directory.
 - → [admin@hostname01 Desktop]\$ rmdir ~/newdirectory
- 12. Create a directory called temp under your home directory.
 - → [admin@hostname01 Desktop]\$ mkdir ~/temp

[admin@hostname01 Desktop]\$ Is

1chap 2chap chap chap2 chapb chapd newdir

- 13. Remove the directory called newdir under your home directory and verify the above with the help of the directory listing command.
 - → [admin@hostname01 Desktop]\$ rmdir ~/newdir (for empty use -r)
- 14. Create another directory directorynew under the temp directory.
 - → [admin@hostname01 ~]\$ mkdir ~/temp/directorynew

[admin@hostname01 $^{\sim}$]\$ cd temp

[admin@hostname01 temp]\$ Is

directorynew

- 15. Change the directory to your home directory.
 - → [admin@hostname01 temp]\$ cd ~
- 16. From your home directory, change the directory to directorynew using relative and absolute path.

Realative → [admin@hostname01 ~]\$ cd temp/directorynew [admin@hostname01 directorynew]\$ cd ~

Absolute → [admin@hostname01 ~]\$ cd ~/temp/directorynew [admin@hostname01 directorynew]\$

- 17. Remove the directory called c_prog, which is in your home directory.
 - → [admin@hostname01 directorynew]\$ rmdir ~/Cprog
- 18. Change to the directory /etc and display the files present in it.
 - → [admin@hostname01 ~]\$ cd /etc

[admin@hostname01 etc]\$ Is

accountsservice	gshadow	popt.d
adjtime	gshadow-	printcap
aliases	gss	profile
alsa	host.conf	profile.d
alternatives	hostname	protocols
anacrontab	hosts	pulse
appstream.conf	hp	qemu-ga
asound.conf	inittab	ras

- 19. List the names of all the files that begin with a dot in the /usr/bin directory.
 - → [root@hostname01 ~]# Is -a /usr/bin | grep "^\."
- 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@hostname01 ~]\$ echo -e "Hi! Good Morning everybody. \n\n Welcome to the First exercise on UNIX. \n\n

Hope you enjoy doing the assignments. " > first.unix

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

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

- →[admin@hostname01 ~]\$ cp ~/first.unix ~/first.unics
- 22. List the contents of first.unix and first.unics with a single command.
 - → [admin@hostname01 ~]\$ cat first.unix first.unics
- 23. Create a new directory under the temp directory.
 - → [admin@hostname01 ~]\$ mkdir ~/temp/sub
- 24. From your home directory, copy all the files to the directory created under the

temp sub directory.

- →[admin@hostname01 temp]\$ cp -r ~/temp/* ~/styles/
 [admin@hostname01 temp]\$ ls ~/styles

 directorynew sub
- 25. Move the file first.unix to the directory temp as second.unix
 - → [admin@hostname01 temp]\$ mv ~/first.unix ~/temp/second.unix
- 26. Remove the file called first.unics from the home directory.
 - → admin@hostname01 temp]\$ rm ~/first.unics
- 27. Change your directory to temp and issue the command rm *. What do you observe?
 - → [admin@hostname01 ~]\$ cd temp

[admin@hostname01 temp]\$ rm *

Remove all files in the temp but not subdirectories

28. Move all files whose names end with a, c and o to the HOME directory.

- → {admin@hostname01 temp]\$ mv ~/temp/*[aco] ~/
- 29. Copy all files that end with a 'UNIX' to the temp directory.
 - → [admin@hostname01 temp]\$ cp *UNIX ~/temp/
- 30. Issuing a single command, remove all the files from the directory temp and the

directory itself.

→ [admin@hostname01 ~]\$ rm -r temp

[admin@hostname01 ~]\$ Is

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Documents firsst.unix Pictures styles Templates

- 31. Try commands cp and mv with invalid number of arguments and note the results.
 - → cp will give missing destination file and same for mv
- 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@hostname01 ~]\$ cat > friends << EOF

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
EOF		

[admin@hostname01 ~] \$ cat friends

- 33. Display contents of the file friends.
 - → [admin@hostname01 ~] \$ cat friends

	Madhu	6966456		09/07/68
Jamil	2345215		08/09/6	57
Ajay	5546785		01/04/6	66
Mano	7820022	2	09/07/6	8
David	8281292		09/09/60)
Simmi	7864563	3	12/12/7	0
Navin	2224311		30/05/68	3

- 34. Copy contents of friends to newfriend without using the cp command.
 - → admin@hostname01 ~]\$ cat friends > newfriend
- 35. Display contents of the file friends and newfriends in a single command.
 - → [admin@hostname01 ~]\$ cat friends newfriends
- 36. Find all users currently working on the system and store the output in a file named as users.
- è → [admin@hostname01 ~]\$ who users
 - 37. Append contents of friends file to the file, users.
 - → [admin@hostname01 ~]\$ cat friends >> users
 - 38. Display current system date and time and record your observations. How is the

time displayed?

è → [admin@hostname01 ~]\$ date

Fri Jan 10 11:15:45 PM IST 2025

[admin@hostname01 ~]\$

- 39. Display calendar for the month and year of your birth.
 - → [admin@hostname01 ~]\$ cal 01 2025

January 2025

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

40. Try following commands and record your observations.

date "+ %" → invalid format

date "+%m" → 01

date "+%D" \rightarrow 01/09/2025

date "+%/%Training Activity" → invalid format

date "+%Training Activity" → invalid format

date "+%r" →11:45:51 AM

Using Pipes and Filters:

- 1: Redirect the content of the help document ls, into a file called as Isdoc.
 - → [root@hostname01 ~]# Is --help > Isdoc
 - → Cat Isdoc
- 2: Display the content of the Isdoc page wise.
 - → [root@hostname01 ~]# more Isdoc
- 3: Create a file data.txt using input redirection.
 - → [root@hostname01 ~]# cat > data.txt

- 4: Display data.txt.
 - → [root@hostname01 ~]# cat data.txt
- 5: Remove the file data.txt.
 - → [root@hostname01 ~]# rm data.txt
- 6: Use error redirection to display data.txt, if any error stores it in errorlog.txt
 - → root@hostname01 ~]# cat data.txt2 > errorlog.txt
- 7: Display errorlog file.
 - → root@hostname01 ~]# cat errorlog.txt