U18CO018 Shubham Shekhaliya OS Assignment-1

Execute all commands on Linux terminal and note down the functionality of each.

- (1) Basic Unix/Linux commands: Is, date, help, info, man, who, pwd, cat, more, mv, rm, chmod, logout,wc,grep,sort,mkdir,rmdir,cd,tail,cmp,diff,cp,clear, df,du,uname,apt-get,find,wget,top,mpstate,netstat,sar
- 1-> Is List all files of current directory
- 2-> date print or set the system date and time
- 3-> help Display information about builtin commands

```
Onto the processing and the command is disabled.

Start (**expression*)

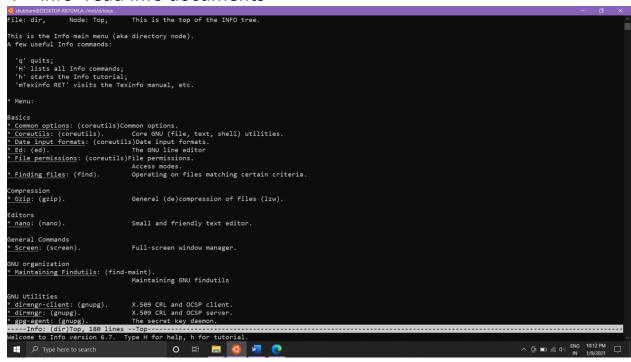
fig. agr., | (expression*)

fig. agr., | (expression*)

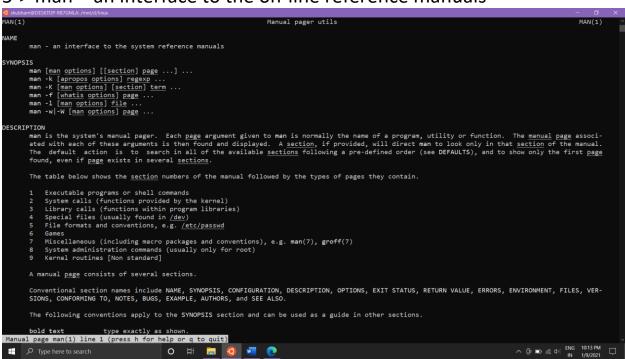
fig. by a post of the comment of the command (ref. or componed)

fig. by a post of the comment of the
```

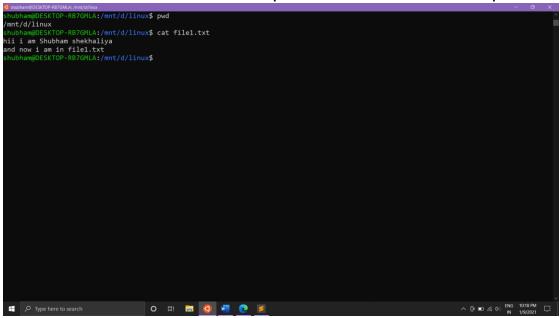
4-> info- read Info documents



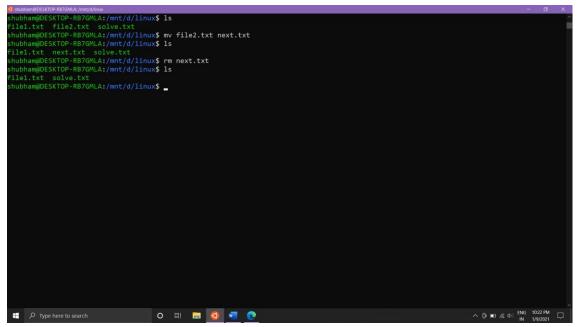
5-> man - an interface to the on-line reference manuals



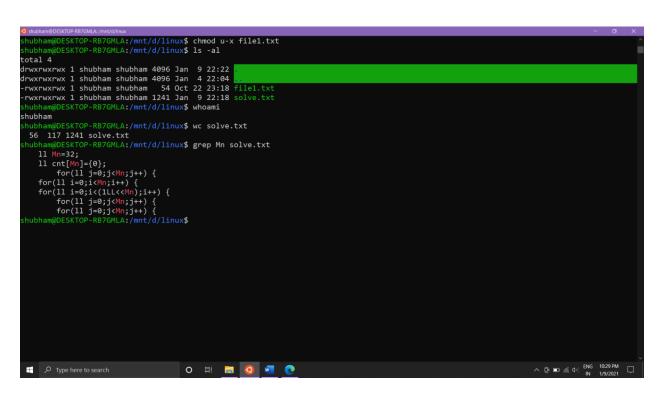
- 6-> who show who is logged in
- 7-> pwd print name of current/working directory
- 8-> cat concatenate files and print on the standard output



- 9-> more Open a file for interactive reading, allowing scrolling and search(in forward direction only).
- 10->mv move or rename files and directories
- 11-> rm remove files and directories



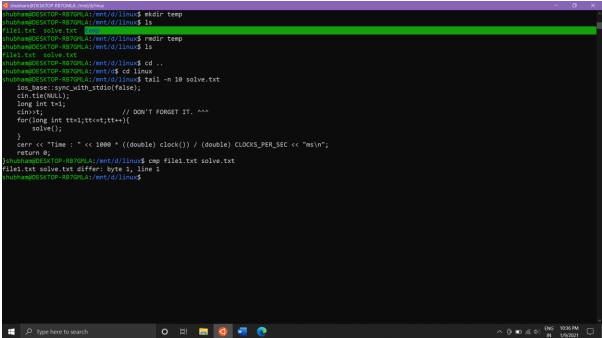
- 12-> chmod Change the access permissions of a file or directory.
- Eg. Give the [u]ser rights to [r]ead and [w]rite to a file/directory: chmod u+rw {{file_or_directory}}
- 13-> Whoami Print the username associated with the current effective user ID.
- 14-> Logout logout command allows you to programmatically logout from your session. causes the session manager to take the requested action immediately.
- \$ logout
 - User gets logged out
- 15-> wc count lines, words or bytes
- 16-> Grep Matches patterns in input text. Supports simple patterns and regular expressions.



17-> Sort - Sort lines of text files.

```
| The property of the property
```

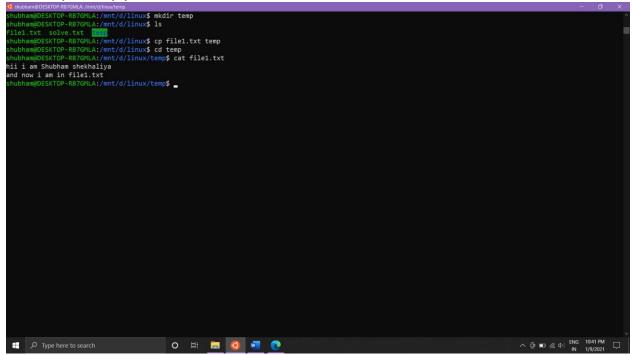
- 18-> Mkdir make directory
- 19-> Rmdir delete empty directory
- 20-> Cd change directory
- 21-> Tail Display the last part of a file.
- 22-> Cmp Compare two files.



23-> Diff - Compare files and directories.

```
| The content of the
```

24-> Cp - Copy files and directories.



25-> Clear - clear screen of terminal

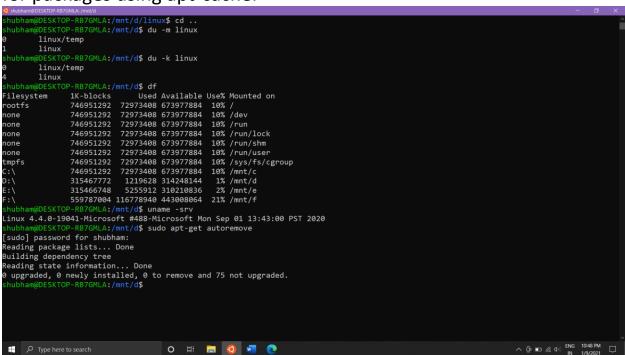
26-> Du - Disk usage: estimate and summarize file and directory space usage.

Disk usage of file MIT in KB and MB is shown above.

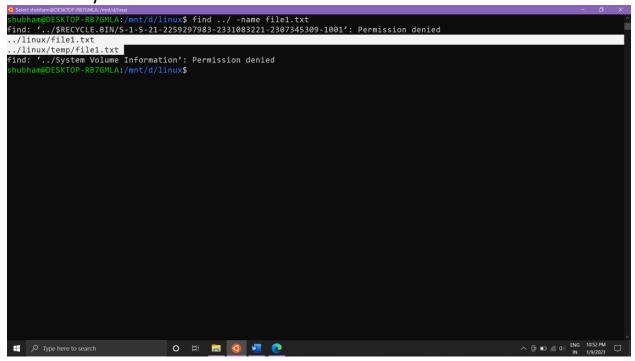
27-> Df - Gives an overview of the file system disk space usage

28-> Uname - Print details about the current machine and the operating system running on it.

29-> Apt-get - Debian and Ubuntu package management utility. Search for packages using apt-cache.



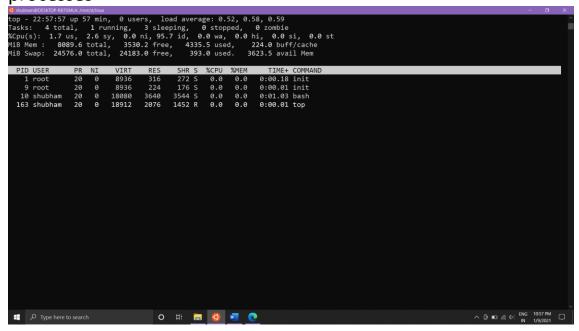
30-> Find - Find files or directories under the given directory tree, recursively



31-> wget – Download files from the web. Supports HTTP, HTTPS and FTP

```
| A | State |
```

32-> top- display dynamic real time information about running processes

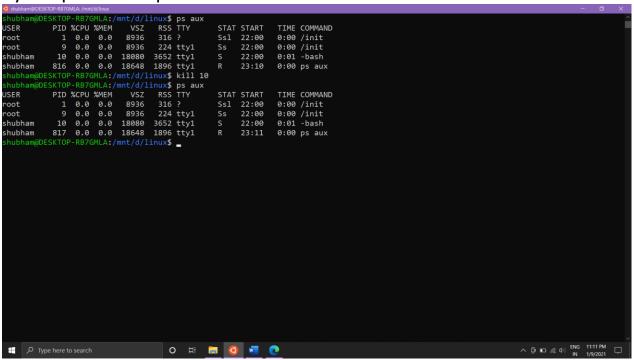


- 33-> mpstat report CPU statistics
- 34-> netstat display network related information such as open connections, open socket ports, etc.
- 35-> sar monitor performance of various linux subsystems Displays performance every 3 seconds.



(2) Linux commands related with process:

- 1-> Ps Information about running processes. Eg. ps aux lists all processes.
- 2-> Kill Sends a signal to a process, usually related to stopping the process. All signals except for SIGKILL and SIGSTOP can be intercepted by the process to perform a clean exit.



3-> Background processes with & -> moves the process to background Eg. Sleep command is moved to background using & and then using fg we bring it to foreground and we get a delay of 5 seconds.

