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**Roll - 40**
**DIV- A**
**SRN - 201900754**

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1. Change your password to a password you would like to use for the remainder of the semester

*Answer – 'passwd'.*

2. Display the system's date.

*Answer – 'date'*

3. Count the number of lines in the /etc/passwd file.

*Answer – 'wc –l /etc/passwd'*

4. Find out who else is on the system.

*Answer – 'who'*

5. Direct the output of the man pages for the date command to a file named *mydate*.

*Answer – 'man date > mydate'*

6. Create a subdirectory called *mydir*.

*Answer – 'mkdir mydir'*

7. Move the file *mydate* into the new subdirectory.

*Answer – 'mv mydate mydir'*

8. Go to the subdirectory *mydir* and copy the file *mydate* to a new file called *ourdate*

*Answer – 'cp mydate ourdate'*

9. List the contents of *mydir*.

*Answer – 'ls '*

10. Do a long listing on the file *ourdate* and note the permissions.

*Answer – 'ls –l'*

11. Display the name of the current directory starting from the root.

*Answer – 'pwd'*

12. Move the files in the directory *mydir* back to the HOME directory.

*Answer – 'mv mydate ourdate /home/useranme'*

13. List all the files in your HOME directory.

*Answer – 'ls -a'*

14. Display the first 5 lines of *mydate*.

*Answer – 'head mydate'*

15. Display the last 8 lines of *mydate*.

*Answer – 'tail -8 mydate'*

16. Remove the directory *mydir*.

*Answer – 'rm –r mydir'*

17. Redirect the output of the long listing of files to a file named *list*.

*Answer – 'ls –a > list'*

18. Select any 5 capitals of states in India and enter them in a file named *capitals1*. Choose 5 more capitals and enter them in a file named *capitals2*. Choose 5 more capitals and enter them in a file named *capitals3*. Concatenate all 3 files and redirect the output to a file named *capitals*.

*Answer – 'cat capital1 capital2 capital3 > capitals'*

19. Concatenate the file *capitals2* at the end of file *capitals*.

*Answer – 'cat capital2 >> capitals'*

20. Redirect the file *capitals* as an input to the command "wc –l".

*Answer – 'wc –l < capitals'*

21. Give read and write permissions to all users for the file *capitals*.

*Answer – 'chmod 666 capitals'*

22. Give read permissions only to the owner of the file *capitals*. Open the file, make some changes and try to save it. What happens ?

*Answer – 'chmod 444 capitals Permission denied as there is no write permission'*

23. Create an alias to concatenate the 3 files *capitals1*, *capitals2*, *capitals3* and redirect the output to a file named *capitals*. Activate the alias and make it run.

*Answer – 'alias cat=cat /home/defalt/Desktop/capital/capital1 /home/defalt/Desktop/capital/capital2 /home/defalt/Desktop/capital/capital3 > /home/defalt/Desktop/capital/capitals* '

24. What are the environment variables PATH, HOME and TERM set to on your terminal ?

*Answer – 'echo $PATH, echo $HOME, echo $TERM'*

25. Find out the number of times the string "the" appears in the file *mydate*.

*Answer – 'grep –c 'the' mydate'*

26. Find out the line numbers on which the string "date" exists in *mydate*.

*Answer – 'grep –n 'date' mydate'*

27. Print all lines of *mydate* except those that have the letter "i" in them.

*Answer – 'grep –n –v 'i' mydate'*

28. Create the file *monotonic* as follows:

^a?b?b?c?……..x?y?z$

Run the egrep command for *monotonic* against /usr/dict/words and search for all 4 letter words.

*Answer – ‘’*

29. List 5 states in north east India in a file *mystates*. List their corresponding capitals in a file *mycapitals*. Use the *paste* command to join the 2 files.

*Answer – ‘paste mystates mycapitals’*

30. Use the *cut* command to print the 1st and 3rd columns of the /etc/passwd file for all students in this class.

*Answer –* ‘cut –d : f 1,3 /etc/passwd’

31. Count the number of people logged in and also trap the users in a file using the *tee* command.

*Answer – ‘who | tee Users | wc -l’*