

OS assignment

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Roll: 38

1. Change your password to a password you would like to use for the remainder of the semester: **passwd**
2. Display the system's date: **date**
3. Count the number of lines in the /etc/passwd file.: **wc -l /etc/passwd**
4. Find out who else is on the system.: **who**
5. Direct the output of the man pages for the date command to a file named mydate.: **man date > mydate**
6. Create a subdirectory called mydir.: **mkdir mydir**
7. Move the file mydate into the new subdirectory.: **mv mydate mydir/**
8. Go to the subdirectory mydir and copy the file mydate to a new file called ourdate.: **cd mydir;cp mydate ourdate**
9. List the contents of mydir.: **ls**
10. Do a long listing on the file ourdate and note the permissions.: **ls -l**
11. Display the name of the current directory starting from the root.: **pwd**
12. Move the files in the directory mydir back to the HOME directory.: **mv */home/yashoswal/**
13. List all the files in your HOME directory.: **cd; ls**
14. Display the first 5 lines of mydate.: **head -5 mydate**
15. Display the last 8 lines of mydate.: **head -8 mydate**
16. Remove the directory mydir.: **rm -rf /home/yashoswal/Documents/TY-Assignments/OS/mydir**

17. Redirect the output of the long listing of files to a file named list.: **ls -l > 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.: **cat capitals1 capitals2 capitals3 > capitals**

19. Concatenate the file capitals2 at the end of file capitals.: **cat capitals2 >> capitals**

20. Redirect the file capitals as an input to the command "wc -l".: **wc -l < capitals**

21. Give read and write permissions to all users for the file capitals.: **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?: **chmod 466 capitals**

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.: **alias concat='cat capitals1 capitals2 capitals3 > capitals'**

24. What are the environment variables PATH, HOME and TERM set to on your terminal?: **\$PATH;\$HOME;\$TERM**

25. Find out the number of times the string "the" appears in the file mydate.: **grep the -o mydate | wc -w**

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

27. Print all lines of mydate except those that have the letter "i" in them.: **grep i -i -v 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.: **grep -f monotonic /usr/dict/words**

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.: **paste mystates mycapitals > states-capitals.txt**

30. Use the cut command to print the 1st and 3rd columns of the /etc/passwd file for all students in this class.: **cut -d : --complement -f2,4- /etc/passwd**

31.Count the number of people logged in and also trap the users in a file using the tee command.: **who | tee > log.txt**