**Subject: Operating System**

**Assignment No 1**

**Objective:** Implement Linux Commands

1. **Change your password to a password you would like to use for the remainder of the semester.**
2. **Display the system’s date.**
3. **Count the number of lines in the /etc/passwd file.**
4. **Find out who else is on the system.**
5. **Direct the output of the man pages for the date command to a file named *mydate*.**
6. **Create a subdirectory called *mydir*.**
7. **Move the file *mydate* into the new subdirectory.**
8. **Go to the subdirectory *mydir* and copy the file *mydate* to a new file called *ourdate***
9. **List the contents of *mydir*.**
10. **Do a long listing on the file *ourdate* and note the permissions.**
11. **Display the name of the current directory starting from the root.**
12. **Move the files in the directory *mydir* back to the HOME directory.**
13. **List all the files in your HOME directory**
14. **Display the first 5 lines of *mydate*.**
15. **Display the last 8 lines of *mydate*.**
16. **Remove the directory *mydir*.**
17. **Redirect the output of the long listing of files to a file named *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*.**
19. **Concatenate the file capitals2 at the end of file capitals.**
20. **Concatenate the file *capitals2* at the end of file *capitals***
21. **Redirect the file *capitals* as an input to the command “wc –l”.**
22. **Give read and write permissions to all users for the file *capitals*.**
23. **Give read permissions only to the owner of the file *capitals*. Open the file, make some changes and try to save it. What happens ?**
24. **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.**
25. **What are the environment variables PATH, HOME and TERM set to on your terminal ?**
26. **Find out the number of times the string “the” appears in the file *mydate*.**
27. **Find out the line numbers on which the string “date” exists in *mydate*.**
28. **Print all lines of *mydate* except those that have the letter “i” in them**
29. **Concatenate the file *capitals2* at the end of file *capitals***
30. **Redirect the file *capitals* as an input to the command “wc –l”.**
31. **Give read and write permissions to all users for the file *capitals*.**
32. **Give read permissions only to the owner of the file *capitals*. Open the file, make some changes and try to save it. What happens ?**
33. **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.**
34. **What are the environment variables PATH, HOME and TERM set to on your terminal ?**
35. **Find out the number of times the string “the” appears in the file *mydate*.**
36. **Find out the line numbers on which the string “date” exists in *mydate*.**
37. **Print all lines of *mydate* except those that have the letter “i” in them**
38. **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.**

1. **Use the *cut* command to print the 1st and 3rd columns of the /etc/passwd file for all students in this class.**
2. **Count the number of people logged in and also trap the users in a file using the *tee***

**command.**