Lab 1 : LINUX BASIC COMMANDS AND BASIC SHELL SCRIPTING

1. Write and Execute the following linux shell commands.

who, whoami, echo, ls, ls -l, ls -a, pwd, cd, cat, cp, mv, rm, mkdir, rmdir, chmod, date, clear, wc, touch, grep, sed, sort, ps, sleep, kill.

2. Write a shell script to accept a directory name and display all files ending with .c.

3. Write a shell script to display the current date and time and also the number of users logged into the system.

4. Write a shell script to display all the lines in a single file in the current directory having manipal as a word.

5. Write a Shell Script that accepts a file name, starting and ending line numbers as arguments and displays all lines between the given line numbers.

6. Write a shell script to accept three filenames as input in the command line. Generate a new file containing concatenated text from all the three input files. Also generate a second file containing sorted lines.

7. Write a C program having two nested loops with one lakh iterations each. Run this program in the background. Note down the process id (pid) of the process. Kill the process using pid.

Additional Exercises -

1. Write a shell script that displays a list of all files in the current directory to which the user has read, write and execute permissions.

2. Write a shell script that deletes all lines containing the specified word in one or more files Supplied as arguments to it.

3. Write a shell script to print line numbers in which a particular word has occurred where word is provided as input.

4. Write a shell script to count no of file in current directory with full permissions.