

You need to find all files in the current directory and its subdirectories that contain the word "error" in their name. What command would you use?

You want to view the contents of a log file in real-time. What command would you use?

You need to search for a specific string in a file and replace it with another string. What command would you use?

You need to compress a directory and exclude certain files and directories from the archive. What command would you use?

You need to download a file from a remote server using the command line. What command would you use?

You need to monitor the CPU usage of a specific process. What command would you use?

You need to copy a file from one directory to another, while preserving its ownership and permissions. What command would you use?

You need to list all files in a directory, sorted by size in descending order. What command would you use?

You need to find all files in a directory and its subdirectories that were modified in the last 24 hours. What command would you use?

You need to transfer files securely between two Linux systems using the command line. What command would you use?

You need to find all running processes on the system and display them sorted by memory usage. What command would you use?

You need to list all installed packages on a Debian-based system. What command would you use?

You need to create a symbolic link to a file in another directory. What command would you use?

You need to kill a process that is not responding. What command would you use?

You need to display the contents of a file, but exclude lines that contain a specific string. What command would you use?

you need to create a compressed archive of a directory, while excluding certain files and directories. What command would you use?

You need to find all files in a directory and its subdirectories that contain a specific string. What command would you use?

You need to view the contents of a log file, but only display the last 20 lines. What command would you use?

You need to change the permissions of a file to allow the owner to read, write, and execute it, and allow group members and others to read and execute it. What command would you use?

You need to find out which user is currently logged in to the system. What command would you use?

1. List the directory contents date wise sorted. (man ls)
2. List the directory contents size wise sorted.(man ls)
3. List directory contents along with their inode no. (man ls)
4. List the contents of the sub directory.
5. Create a file , write your surname and name in it and save.
 - i.now open the same file and add your address in it and save.
 - ii.reopen the same file and check your name and address in it.
6. how to change the timestamp of file (man touch)
7. Create directory structure : Give following commands ,
 - > mkdir one
 - > cd one
 - > touch 1.txt 11.txt 111.txt
 - > mkdir two
 - > cd two
 - > touch 2.txt 22.txt 222.txt
 - > mkdir three
 - > cd three
 - > touch 3.txt 33.txt 333.txt
 - > mkdir four
 - > cd four
 - > touch 4.txt 44.txt 444.txt
 - > mkdir five
 - > cd five
 - > touch 5.txt 55.txt 555.txt
 - > cd ~ (i.e. go to your home directory)
8. Considering above directory structure , Do following operations :
 - i. list the directory contents of directory named "five" from the current directory (i.e. home directory).

- ii. write your name in a file named "44.txt" of directory "four" from current directory.
- iii. remove the file named "555.txt" from directory "five" from the current directory.
- iv. change directory to five (i.e. cd one/two/three/four/five/).
- v. write your course name in file named "3.txt" which resides in directory "three" from current directory (i.e. five).also read the same file.
- vi. list the contents of directory "two" from current directory (i.e. five).
- vii. remove file named "222.txt" which belongs to directory "two" from current directory (i.e. five)
- viii. now change the directory to "one"
- ix. remove all files only from directory named "five" from current directory (i.e. one)
- x. remove directory named "five" from current directory (i.e. one)
- xi. remove whole directory named "four" from current directory (i.e. one)
- xii. change to your home directory.
- 9. change the time stamp of file named "3.txt" which resides in directory named "three".(man touch)
- 10. Create a file named "data.txt" and write following 6 lines in it(write as it is).
 "Linux is open source.
 In linux everything
 is file. files have permissions.
 files have inode no.
 files have size.
 there are several types of file"
- i. count the no. of words ,characters and lines from above

2

- file.(man wc)
- ii. list the lines having word "files" (man grep)
- iii. list the lines having word "file" (man grep)
- iv. list the lines which don't have word "files" (man grep)
- v. list the lines having the word "have" along with count. (man grep)
- vi. list the lines starts with letter "f" (man grep)
- vii. list the lines ends with "g" (man grep)
- viii. list only first two lines.(man head)
- ix. list only last three lines.(man tail)
- x. list line no.3,4 and 5 . (man head and tail)

-
1. Write a shell script to display your LOGIN NAME and HOME directory.
 2. Write a shell script to display a menu like “1. Date, 2. Cal, 3. Ls, 4. Pwd, 5. Exit” and execute the commands depending on user choice.
 3. Write a shell script to accept the name from the user and check whether user entered name is file or directory. If name is file display its size and if it is directory display its contents.
 4. Write a shell script to determine whether a given number is prime or not
 5. Write a Program to find the greatest of three numbers
 6. Write a Program to find whether a given year is a leap year or not
 7. Write a Program to find whether a given number is positive or negative
 8. Write a program to print the table of a given number.
 9. Write a program to find the factorial of a given number.
 10. Write a program to find a given number of terms in the Fibonacci series.
 11. Write a program to calculate gross salary if the DA is 40%, HRA is 20% of basic salary. Accept basic salary form user and display gross salary (Result can be floating point value).
 12. Write a shell script to accept a filename as argument and displays the last modification time if the file exists and a suitable message if it doesn't exist.
 13. Write a shell script to display only hidden files of the current directory.
 14. Write a shell script to display only executable files of the current directory.
 15. Accept the two file names from user and append the contents in reverse case of first file into the second file.
 16. Write a shell script to display welcome message to the user along with contents of his home directory. Ensure that shell script will execute automatically when user login to the shell. (Make entry of your shell script into .bashrc file into your home directory).
 17. Print the following pattern.

```
*
* *
* * *
* * * *
* * * * *
```