

Simple Filters

Spoken Tutorial Project
National Mission on Education through ICT
<http://spoken-tutorial.org>

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Learning Objectives

We will be learning about several commands like-



Learning Objectives

We will be learning about several commands like-

- ▶ **head**



Learning Objectives

We will be learning about several commands like-

- ▶ head
- ▶ tail



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- ▶ sort



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We will be learning about several commands like-

- ▶ head
- ▶ tail
- ▶ sort
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Pre-requisites :

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- ▶ **#** symbol needs you to be root (sudo su or su root).
- ▶ **\$** symbol you can be an ordinary user.
- ▶ **I assume that you did a default installation.**



Pre-requisites :

- I am using Linux.



Pre-requisites :

- ▶ I am using Linux.
- ▶ Prerequisite: ability to use the mouse, keyboard, Maximise & Minimize button on a window.



HEAD command

- ▶ **head** command followed by file name to display first 10 lines of a file, by default.



TAIL command



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- ▶ A log file contains events which took place in a system.
- ▶ **auth.log** file maintains log for who logged in & who logged out.



TAIL command

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- ▶ If a new line is appended to the log file-
 - * the **tail** command will take that as the last line
 - * and display 10 lines, by default, above it



Common Linux log files names & Usage

- ▶ **/var/log/auth.log:** Authentication logs.
- ▶ **/var/log/message:** General & system related stuff.
- ▶ **/var/log/kern.log:** Kernel logs.
- ▶ **/var/log/cron.log:** Crond logs (cron job).
- ▶ **/var/log/maillog:** Mail server logs.
- ▶ **/var/log/httpd/:** Apache access & error logs.
- ▶ **/var/log/mysqld.log:** MySQL DB server log file.



SORT command

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- ▶ As the name suggests, it will sort a file in ascending & descending order.
- ▶ It can also pull out unique numbers.
- ▶ Create a file **marks.txt** with the contents shown below-

```
100 Bala  
60 Pr@deep  
85 Vij@y  
40 Avir  
90 S0mu
```



CUT command

- **cut** is used to cut certain information from a file.



CUT command

- ▶ **cut** is used to cut certain information from a file.
- ▶ Let us pull out the names from **marks.txt**.



PASTE command

- **paste** will merge lines of two or more files.



PASTE command

- ▶ **paste** will merge lines of two or more files.
- ▶ **Redirect it to a new file.**



PASTE command

- ▶ **paste** will merge lines of two or more files.
- ▶ Redirect it to a new file.
- ▶ **Print numbers serially.**



Acknowledgement

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- ▶ **Supported by the National Mission on Education through ICT, MHRD, Government of India.**
- ▶ **More information:**
<http://spoken-tutorial.org/NMEICT-Intro>

