- 1. /
- This is top level directory
- ➤ It is parent directory for all other directories
- It is called as ROOT directory
- It is represented by forward slash (/)
- ➤ C:\ of windows

Filesystem hierarchy system

- 2. /root
- it is home directory for root user (super user)
- It provides working environment for root user
- C:\Documents and Settings\Administrator

- 3. /home
- it is home directory for other users
- It provide working environment for other users (other than root)
- c:\Documents and Settings\username

- 4. /boot
- Contains the static bootloader and kernel executable and configuration files required to boot a Linux computer.

Filesystem hierarchy system

- 5. /etc
- Contains the local system configuration files for the host computer.
- C:\windows\system32\drivers\

- 6. /usr
- by default soft wares are installed in /usr directory
 (UNIX Sharable Resources)
- ➤ c:\program files

- 7. /opt
- It is optional directory for /usr
- It contains third party softwares
- c:\program files

- 8. /bin
- it contains commands used by all users (Binary files)
- 9. /sbin
- it contains commands used by only Super User (root)
 (Super user's binary files)

10. /dev

- This directory contains the device files for every hardware device attached to the system.
- These are not device drivers rather they are files that represent each device on the computer and facilitate access to those devices.
- Similar to device manager of windows

- 11. /proc
- /proc like /dev is a virtual directory.
- It contains information about our computer such as information about our CPU and the kernel our Linux system is running.

As with /dev the files and directories are generated when our computer starts or on the fly as our system is running and things change.

Filesystem hierarchy system

12. /var

- Variable data files are stored here.
- This can include things like log files, MySQL and other database files, web server data files, email inboxes and much more.

Filesystem hierarchy system

13. /tmp

- ➤ Temporary directory.
- Used by the operating system and many programs to store temporary files.
- Users may also store files here temporarily.
- Note that files stored here may be deleted at any time without prior notice.

14. /mnt

A temporary mount point for regular filesystems (as in not removable media) that can be used while the administrator is repairing or working on a filesystem.

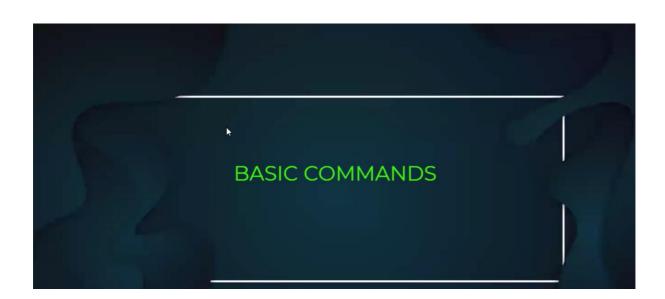
Filesystem hierarchy system

15. /media

A place to mount external removable media devices such as USB thumb drives that may be connected to the host.

16. /lib

- Contains shared library files that are required to boot the system.
- ➤ It is similar to dll files of windows



pwd

- 1. pwd command stands for print working directory.
- It displays the current working location or directory of the user
- ➤ # pwd
- press enter

ls

- 1. Is stands for list.
- 2. It will show the full list or content of our directory
- > # ls
- press enter

Is options

- 1. ls -a
- It will give us the whole list of directory including the hidden files also.
- In linux hidden files start with a dot(.) and can't be seen in the regular directory.

Is options

- 2. Is -I
- ➤ It will show the list in a long list format
- ➤ long list format have 7 columns
- column 1 indicates information regarding file permission
- column 2 indicates the no. of links to the file

Is options

- column 3 & 4 indicates the owner and group information
- column 5 indicates the size of file in bytes
- column 6 shows the date and time on which the file was recently modified
- column 7 shows the file or directory name

Is options

- 3. ls -lr
- Listing of all files and directories in reverse order
- 4. ls -li
- This command prints the index number if file is in the first column
- 5. Is -I <file name>
- To see the permissions of a particular file

Is options

- 6. Is -Id <directory name>
- > To see the permissions of a particular directory
- 7. ls-R
- shows the list of files in tree structure

Creation of Files

By using three methods we can create files

- > cat command
- → ±ouch command
- ➤ vi editor

cat command

cat (Concatenate) command is used to create a file and to display and append the contents of a file.

- 1. To create a file type like below:
- # cat > <filename>
- Hello World
- press enter
- ctrl+d (To save the file)

cat command

- 3. To append the data in the already existing file type like below:
- # cat >> <filename>
- ➤ welcome
- press enter
- ctrl+d (to save the changes)

cat command

- 4. To transfer the contents of file 1 & file 2 to file 3 type like below:
- # cat <file]> <file2> >> <file3>
- press enter