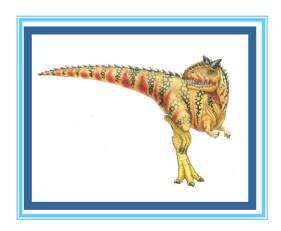
# Introduction to Linux Day2: Sep 2021

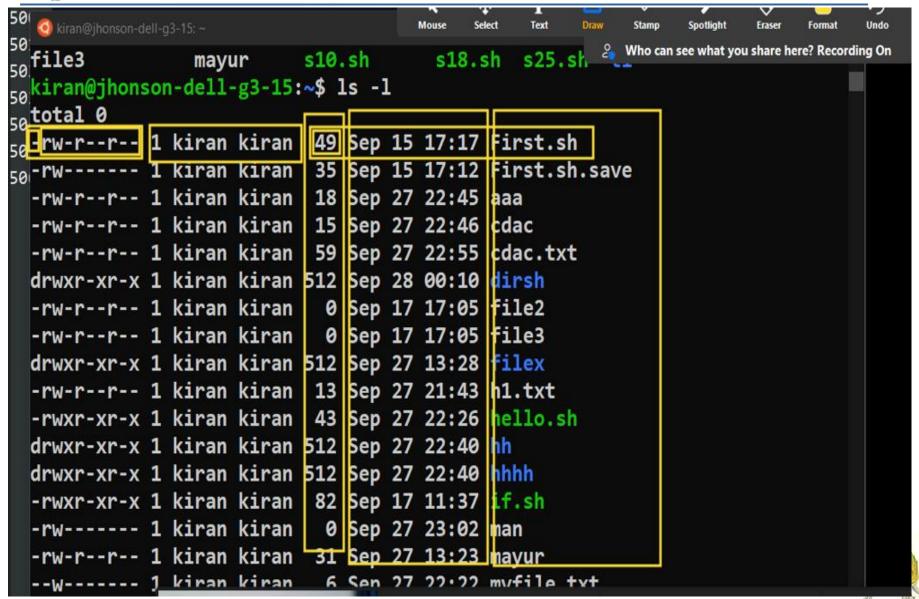
**Kiran Waghmare** 





```
🧿 kiran@jhonson-dell-g3-15: ~
                                                                                   Select
                                                                                              Text
                                                                         Mouse
/home/kiran/.hushlogin file.
kiran@jhonson-dell-g3-15:~$
```

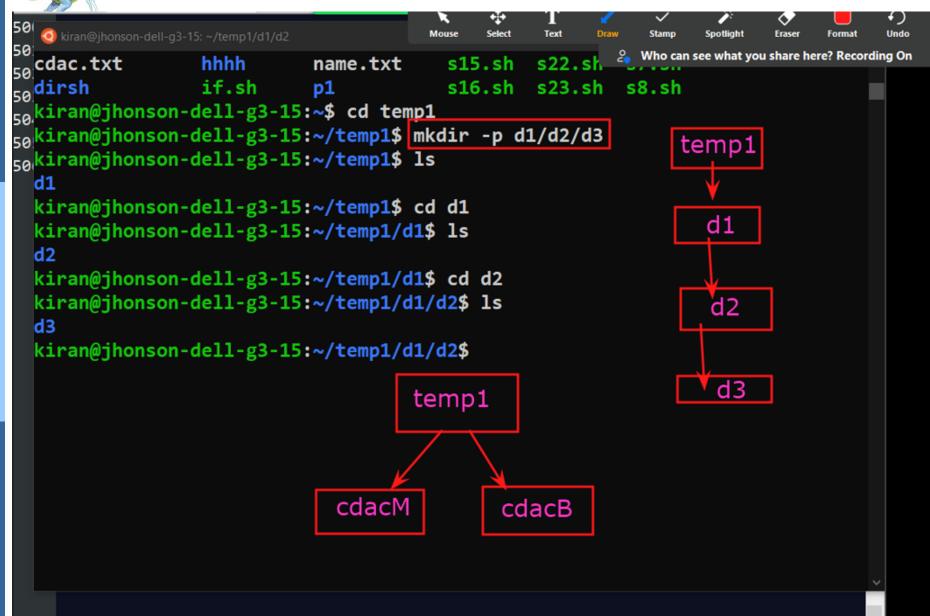






```
kiran@jhonson-dell-g3-15: ~
                                                                Who can see what you share here? Recording C
-bash: Sep21: No such file or directory
ciran@jhonson-dell-g3-15:~$ cat < Sep21</pre>
-bash: Sep21: No such file or directory
kiran@jhonson-dell-g3-15:∼$ cat ⋝ Sep21
kiran@jhonson-dell-g3-15:~$ cat Sep21
3
6
kiran@jhonson-dell-g3-15:~$
```







```
Select
                                               Text
 kiran@ihonson-dell-g3-15: ~/temp1
                                    Mouse
                                                         Stamp
                                                                    Eraser
                                                                         Format
                                                                               Undo
                                                        Who can see what you share here? Recording On
drwxr-xr-x 1 kiran kiran 512 Sep 28 10:08 temp1
kiran@jhonson-dell-g3-15:~$ cp Sep20.txt /home/temp1/Sep20.txt
cp: cannot create regular file '/home/temp1/Sep20.txt': No such file or di
rectory
kiran@jhonson-dell-g3-15:~$ cp Sep20.txt /home/kiran/temp1/Sep20.txt
kiran@ihonson-dell-g3-15:~$ ls
First.sh
               dirsh
                         if.sh
                                              s16.sh s23.sh
                                                               s8.sh
                                      р1
First.sh.save file2
                                      s1.sh
                                              s17.sh s24.sh s9.sh
                         man
Sep20.txt
            file3
                                      s10.sh
                                              s18.sh s25.sh
                                                              t1
                         mayur
Sep21
          filex
                         myfile.txt s11.sh
                                              s19.sh s3.sh
                                                               t2
Sep21.txt
                         nae.txt
                                      s12.sh s2.sh s4.sh
                                                               t3
               h1.txt
               hello.sh
                                      s13.sh s20.sh s5.sh
                                                               task.sh
aaa
                         name
                                      s14.sh s21.sh s6.sh
                                                              temp1
cdac
               hh
                         name.sh
               hhhh
                                      s15.sh s22.sh s7.sh
cdac.txt
                         name.txt
kiran@jhonson-dell-g3-15:~$ cd temp1
kiran@jhonson-dell-g3-15:~/temp1$ ls
Sep20.txt
kiran@jhonson-dell-g3-15:~/temp1$ cat Sep20.txt
11111
22222
33333
kiran@jhonson-dell-g3-15:~/temp1$
```



```
Mouse
kiran@ihonson-dell-g3-15: ~/temp1
                                                         Who can see what you share here? Recording On
Hello World, \n Good Morningkiran@jhonson-dell-g3-15.
o World,\n Good Morning"
Hello World, \n Good Morningkiran@jhonson-dell-g3-15:~/temp1$
kiran@jhonson-dell-g3-15:~/temp1$ echo -e "Hello World,\n Good Morning"
Hello World,
Good Morning
kiran@jhonson-dell-g3-15:~/temp1$ echo -e "Hello World,\nGood Morning"
Hello World,
Good Morning
kiran@jhonson-dell-g3-15:~/temp1$ man echo
                                                              Editor:
kiran@jhonson-dell-g3-15:~/temp1$ v
                                                              -QED
                                                              -Vi
                                                              -Vim
                                                              -Nano
                                                              -Edit +
```

## Who can see what you share here: Recording on

# Vi Editor

-----

- 1. vi filename.sh
- 2. Esc + i(insert)
- 3. Add the code in file
- 4. Esc + :wq

w(save)+q(exit)

5.chmod +x filename.sh

(permission grant)

6.Execute: ./filename.sh

or

Execute: bash filename.sh

Editor:

-QED

-Vi

-Vim

-Nano

-Edit +



# Vi Editor

-----

- 1. vi filename.sh
- 2. Esc + i(insert)
- 3. Add the code in file
- <u>4. Esc + :wq</u>

w(save)+q(exit)

5.chmod +x filename.sh

(permission grant)

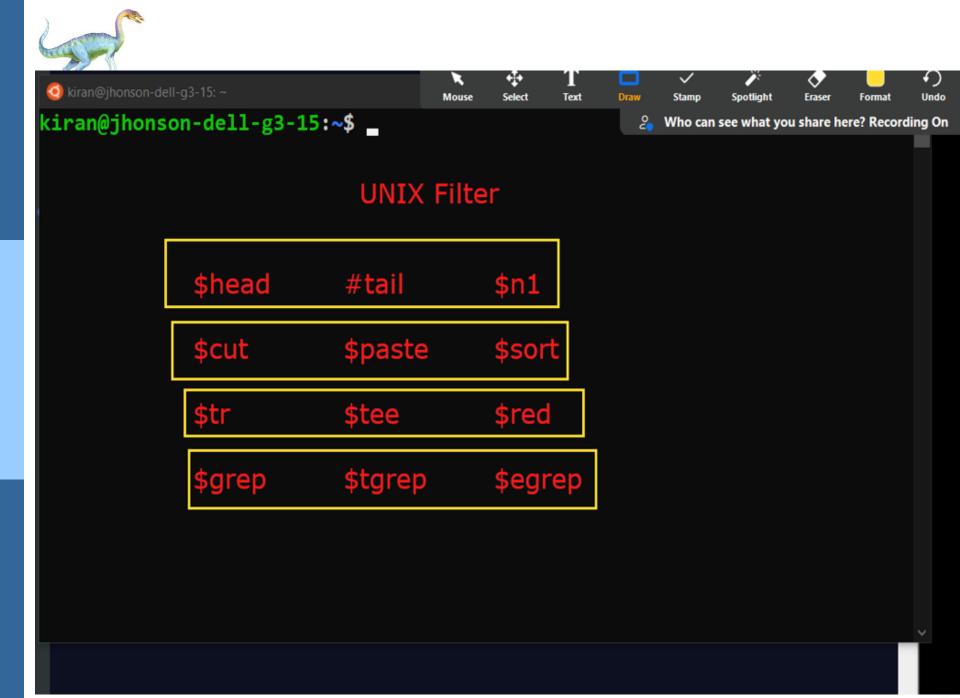
6.Execute: ./filename.sh

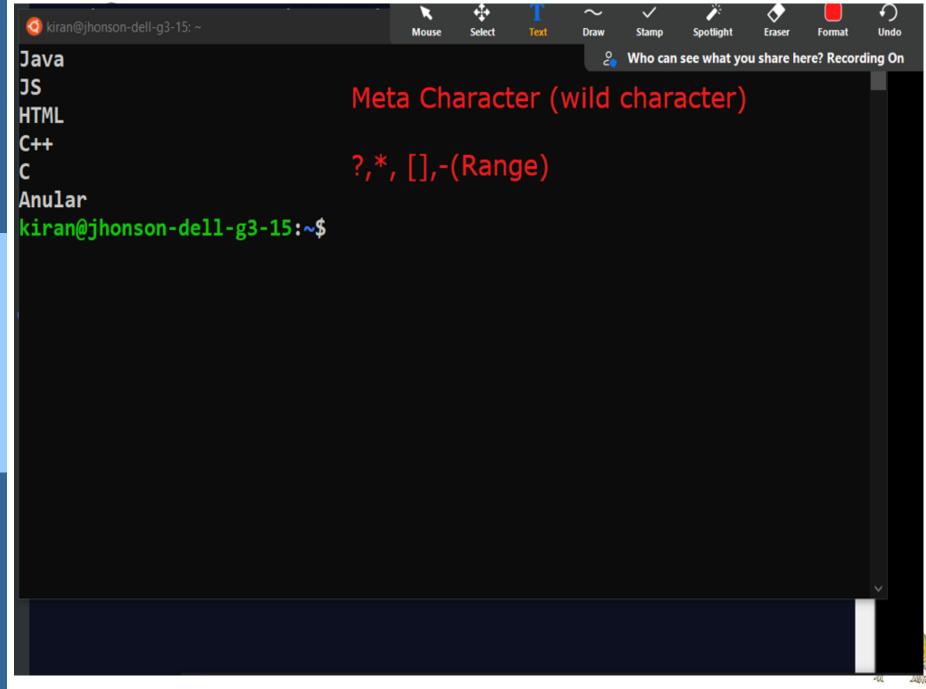
or

Execute: bash filename.sh

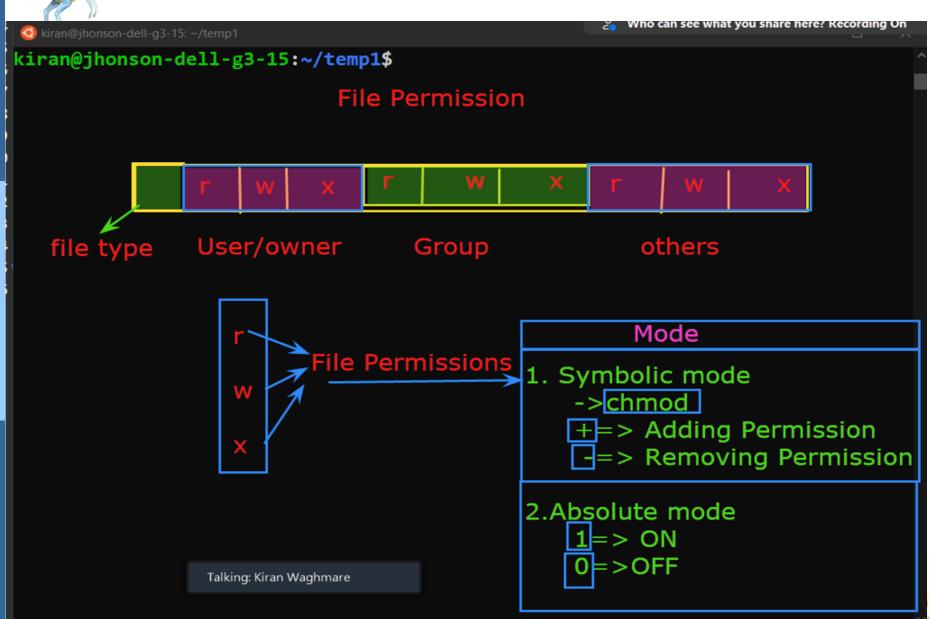
Editor:

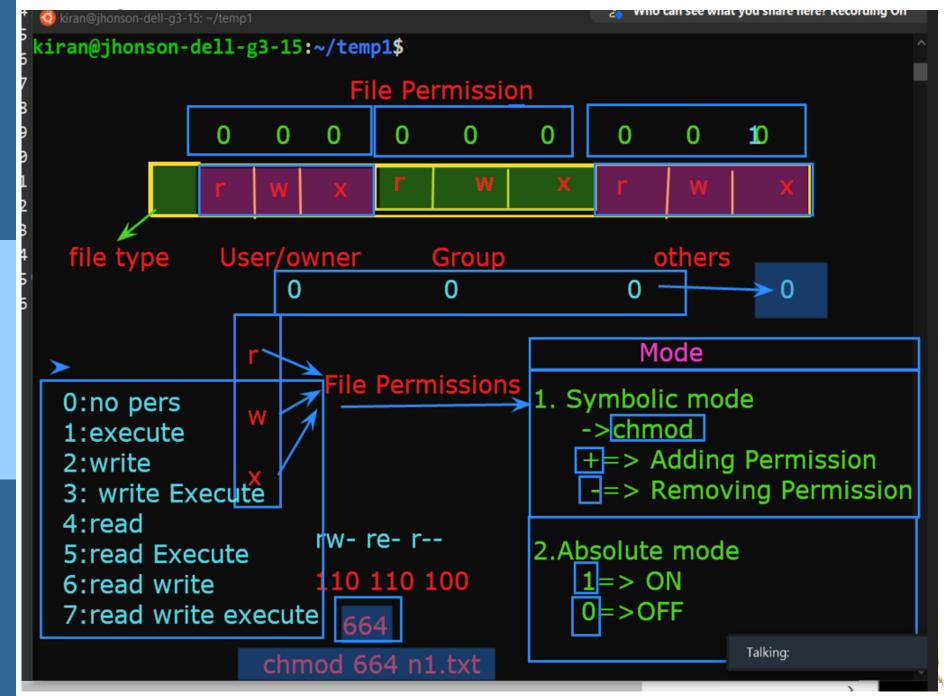
- -QED
- -Vi
- -Vim
- -Nano
- -Edit +

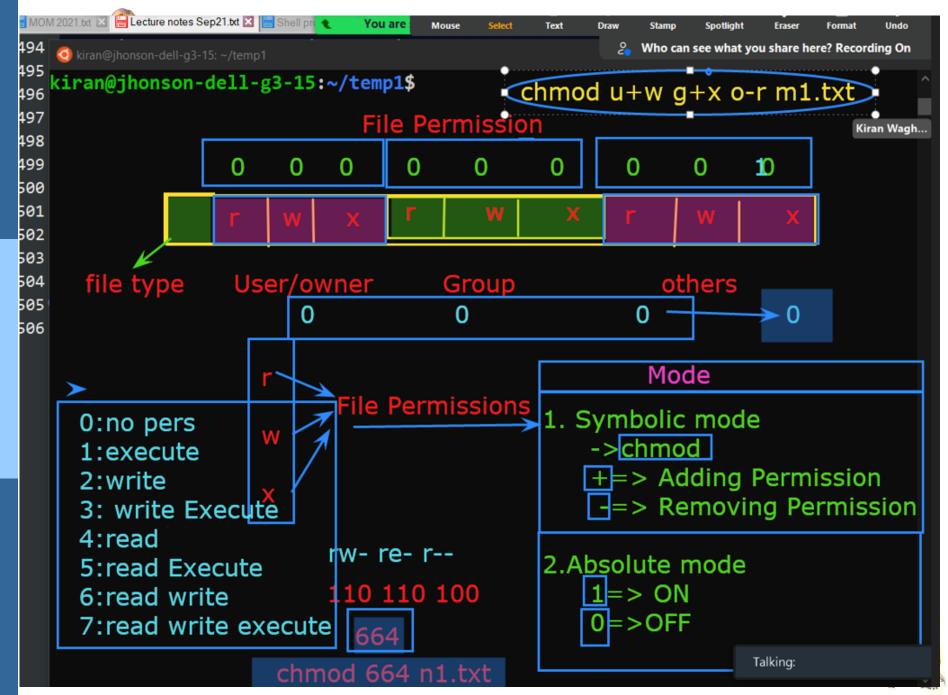














# **Linux Directory Commands**

Directory Command	Description
pwd	The pwd command stands for (print working directory). It displays the current working location or directory of the user. It displays the whole working path starting with /. It is a built-in command.
<u>ls</u>	The Is command is used to show the list of a folder. It will list out all the files in the directed folder.
<u>cd</u>	The cd command stands for (change directory). It is used to change to the directory you want to work from the present directory.
<u>mkdir</u>	With mkdir command you can create your own directory.
rmdir	The rmdir command is used to remove a directory from your system.



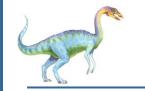
Root Directory	Home Directory
The root directory is the topmost level of the system drive.	The home directory is a subdirectory of the root directory.
It is denoted by a slash '/'.	It is denoted by '~' and has path "/users/username".
The admin has access to make any changes in the files and settings.	No user other than the root user can change the settings of the entire system.
The admin can create a user.	Any user having a home directory cannot create a user.
In the Linux file system, everything comes under the root directory.	The home directory contains a particular user's data.





In Linux, nidgen riles start with . (dot) symbol and they are not visible in the regular directory. The (ls -a) command will enlist the whole list of the current directory including the hidden files.	
It will show the list in a long list format.	
This command will show you the file sizes in human readable format. Size of the file is very difficult to read when displayed in terms of byte. The (Is -Ih)command will give you the data in terms of Mb, Gb, Tb, etc.	
If you want to display your files in descending order (highest at the top) according to their size, then you can use (ls -lhS) command.	
It is used to display the files in a specific size format. Here, in [SIZE] you can assign size according to your requirement.	
It is used to display only subdirectories.	
With this you can exclude column of group information and owner.	
It is used to print group ID and owner ID instead of their names.	
This command is used to print list as colored or discolored.	
This command prints the index number if file is in the first column.	
It is used to identify the directory easily by marking the directories with a slash (/) line sign.	
It is used to print the list in reverse order.	
It will display the content of the sub-directories also.	
It will group the files with same extensions together in the list.	
It will sort the list by displaying recently modified filed at top.	
It gives the contents of home directory.	
It give the contents of parent directory.	
It checks the version of Is command.	

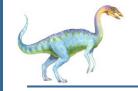
CDAC Mumbai: Kiran Waghmare



# Mkdir Options

Options	Description
mkdir -p, -parents	Add directory including its sub directory.
mkdir -v, -verbose	Print a message for each created directory.
mkdir -m -mode=MODE	Set access privilege.

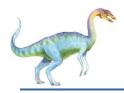




# Linux File Commands

Command	Description
file	Determines file type.
touch	Used to create a file.
<u>rm</u>	To remove a file.
ср	To copy a file.
<u>mv</u>	To rename or to move a file.
rename	To rename file.





# **Linux Filter Commands**

- 1. cat
- 2. cut
- 3. grep
- 4. comm
- 5. sed
- 6. tee
- 7. tr
- 8. uniq
- 9. wc
- 10. od
- 11. sort
- 12. gzip





# Regular Expression Metacharacters

A regular expression may have one or several repeating metacharacters.

Metacharacter	Description
	Replaces any character.
۸	Matches start of string and represents characters not in the string.
\$	Matches end of string.
*	Matches zero or more times the preceding character.
\	Represents the group of characters.
()	Groups regular expressions.
?	Matches exactly one character.
+	Matches one or more times the preceding character.
{N}	Preceding character is matched exactly N times.
{N,}	Preceding character is matched exactly N times or more.
{N,M}	Preceding character is matched exactly N times, but not more than N times.
-	Represents the range.
\b	Matches empty string at the edge of a word.
\B	Matches empty string if it is not at the edge of a word.
\<	Matches empty string at the beginning of a word.
\>	Matches empty string at the end of a word.