

RESEARCH INNOVATION DISCOVERY Reg. No: 048884

RID संस्था समस्या का समाधान

Reg.No: 048884 Foundation Day 30-09-2023

RUN BY TWKSAA WELFARE FOUNDATION

Linux E-Book



Er. Rajesh Prasad(B.E, M.E) Founder: TWF & RID Org.

- RID ORGANIZATION यानि Research, Innovation and Discovery संस्था जिसका मुख्य उदेश्य हैं आने वाले समय में सबसे पहले NEW (RID, PMS & TLR) की खोज, प्रकाशन एवं उपयोग भारत की इस पावन धरती से भारतीय संस्कृति, सभ्यता एवं भाषा में ही हो |
- देश, समाज, एवं लोगों की समस्याओं का समाधान NEW (RID, PMS & TLR) के माध्यम से किया जाये इसके लिए ही मैं राजेश प्रसाद **इस RID संस्था** की स्थपना किया हुँ |
- Research, Innovation & Discovery में रूचि रखने वाले आप सभी विधार्थियों, शिक्षकों एवं बुधीजिवियो
 से मैं आवाहनं करता हूँ की आप सभी इस RID संस्था से जुड़ें एवं अपने बुध्दि, विवेक एवं प्रतिभा से दुनियां को
 कुछ नई (RID, PMS & TLR) की खोजकर, बनाकर एवं अपनाकर लोगों की समस्याओं का समाधान करें |

"Linux के इस ई-पुस्तक में आप English से जुड़ी सभी बुनियादी अवधारणाएँ सीखेंगे। । मुझे आशा है कि इस ई -पुस्तक को पढ़ने के बाद आपके ज्ञान में वृद्धि होगी और आपको English Language के बारे में और अधिक जानने में रुचि होगी"

"In this Linux E-Book you will learn all the basic concepts related to English. I hope after reading this E-Book your knowledge will be improve and you will get more interest to know more thing about English Language".

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RID हमें क्यों करना चाहिए

(Research)

अनुसंधान हमें क्यों करना चाहिए ?

Why should we do research?

- 1. नई ज्ञान की प्राप्ति (Acquisition of new knowledge)
- 2. समस्याओं का समाधान(To Solving problems)
- 3. सामाजिक प्रगति (To Social progress)
- 4. विकास को बढ़ावा देने(To promote development)
- 5. तकनीकी और व्यापार में उन्नति(To advances in technology & business)
- 6. देश विज्ञान और प्रौद्योगिकी के विकास(To develop the country's science & technology)

(Innovation)

नवीनीकरण हमें क्यों करना चाहिए ?

Why should we do Innovation?

- 1. प्रगति के लिए(To progress)
- 2. परिवर्तन के लिए(For change)
- 3. उत्पादन में सुधार(To Improvement in production)
- 4. समाज को लाभ(To Benefit to society)
- 5. प्रतिस्पर्धा में अग्रणी (To be ahead of competition)
- 6. देश विज्ञान और प्रौद्योगिकी के विकास।

(To develop the country's science & technology)

(Discovery)

खोज हमें क्यों करना चाहिए?

Why should we do Discovery?

- 1. नए ज्ञान की प्राप्ति(Acquisition of new knowledge)
- 2. अविष्कारों की खोज(To Discovery of inventions)
- 3. समस्याओं का समाधान(To Solving problems)
- 4. ज्ञान के विकास में योगदान(Contribution to development of knowledge)
- 5. समाज के उन्नति के लिए (for progress of society)
- 6. देश विज्ञान और तकनीक के विकास

(To develop the country's science & technology)

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❖ Research(अनुसंधान):

• अनुसंधान एक प्रणालीकरण कार्य होता है जिसमें विशेष विषय या विषय की नई ज्ञान एवं समझ को प्राप्त करने के लिए सिद्धांतिक जांच और अध्ययन किया जाता है। इसकी प्रक्रिया में डेटा का संग्रह और विश्लेषण, निष्कर्ष निकालना और विशेष क्षेत्र में मौजूदा ज्ञान में योगदान किया जाता है। अनुसंधान के माध्यम से विज्ञान, प्रोधोगिकी, चिकित्सा, सामाजिक विज्ञान, मानविकी, और अन्य क्षेत्रों में विकास किया जाता है। अनुसंधान की प्रक्रिया में अनुसंधान प्रश्न या कल्पनाएँ तैयार की जाती हैं, एक अनुसंधान योजना डिज़ाइन की जाती है, डेटा का संग्रह किया जाता है, विश्लेषण किया जाता है, निष्कर्ष निकाला जाता है और परिणामों को उचित दर्शाने के लिए समाप्ति तक पहुंचाया जाता है।

❖ Innovation(नवीनीकरण): -

- Innovation एक विशेषता या नई विचारधारा की उत्पत्ति या नवीनीकरण है। यह नए और आधुनिक विचारों, तकनीकों, उत्पादों, प्रक्रियाओं, सेवाओं या संगठनात्मक ढंगों का सूजन करने की प्रक्रिया है जिससे समस्याओं का समाधान, प्रतिस्पर्धा में अग्रणी होने, और उपयोगकर्ताओं के अनुकूलता में सुधार किया जा सकता है।

❖ Discovery (आविष्कार):

- Discovery का अर्थ होता है "खोज" या "आविष्कार"। यह एक विशेषता है जो किसी नए ज्ञान, अविष्कार, या तत्व की खोज करने की प्रक्रिया को संदर्भित करता है। खोज विज्ञान, इतिहास, भूगोल, तकनीक, या किसी अन्य क्षेत्र में हो सकती है। इस प्रक्रिया में, व्यक्ति या समूह नए और अज्ञात ज्ञान को खोजकर समझने का प्रयास करते हैं और इससे मानव सभ्यता और विज्ञान-तकनीकी के विकास में योगदान देते हैं।

नोट : अनुसंधान विशेषता या विषय पर नई ज्ञान के प्राप्ति के लिए सिस्टमैटिक अध्ययन है, जबकि आविष्कार नए और अज्ञात ज्ञान की खोज है।

	सुविचार:			
1.	समस्याओं का समाधान करने का उतम मार्ग हैं। → शिक्षा ,RID, प्रतिभा, सहयोग, एकता एवं समाजिक-कार्य			
2.	एक इंसान के लिए जरूरी हैं → रोटी, कपड़ा, मकान, शिक्षा, रोजगार, इज्जत और सम्मान			
3.	एक देश के लिए जरूरी हैं - 💛 संस्कृति-सभ्यता, भाषा, एकता, आजादी, संविधान एवं अखंडता			
4.	सफलता पाने के लिए होना चाहिए → लक्ष्य, त्याग, इच्छा-शक्ति, प्रतिबद्धता, प्रतिभा, एवं सतता			
5.	मरने के बाद इंसान छोडकर जाता हैं → शरीर, अन-धन, घर-परिवार, नाम, कर्म एवं विचार			
6.	मरने के बाद इंसान को इस धरती पर याद किया जाता हैं उनके			
→ नाम, काम, दान, विचार, सेवा-समपर्ण एवं कर्मो से				

आशीर्वाद (बड़े भैया जी)



Mr. RAMASHANKAR KUMAR

मार्गदर्शन एवं सहयोग



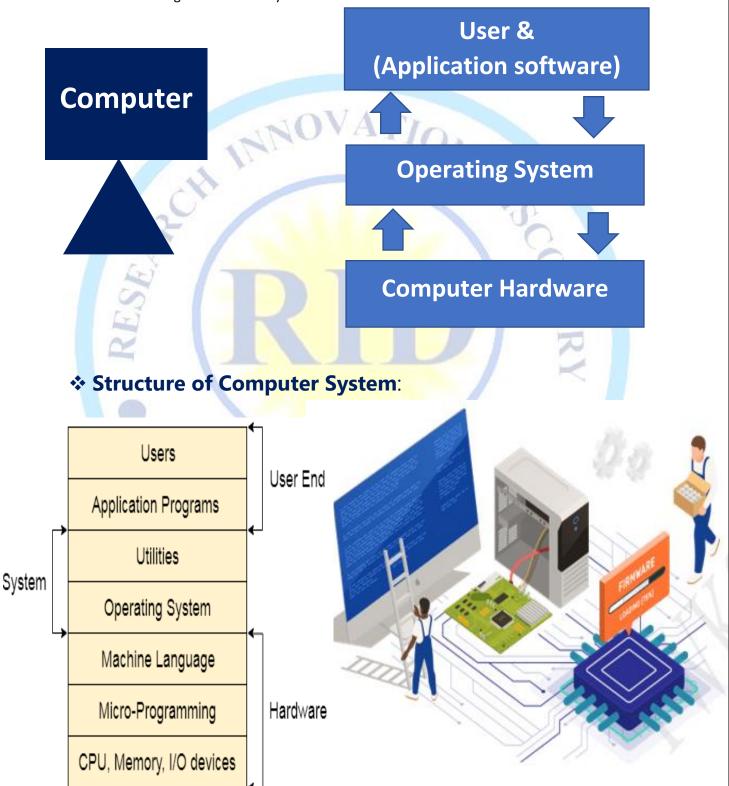
Mr. GAUTAM KUMAR



..सोच है जिनकी नई कुछ कर दिखाने की, खोज है रीड संस्था को उन सभी इंसानों की... "अगर आप भी Research, Innovation and Discovery के क्षेत्र में रूचि रखतें हैं एवं अपनी प्रतिभा से दुनियां को कुछ नया देना चाहतें एवं अपनी समस्या का समाधान RID के माध्यम से करना चाहतें हैं तो RID ORGANIZATION (रीड संस्था) से जरुर जुड़ें" || धन्यवाद || Er. Rajesh Prasad (B.E, M.E)

What is Operating System (OS):

- Operating system is system software that manages computer hardware and software resources, and provides common services for computer programs.
- it is an interface between user and hardware. It is set of Program
- It is responsible for the execution of all the processes, Resource Allocation, CPU management, File Management and many other tasks.







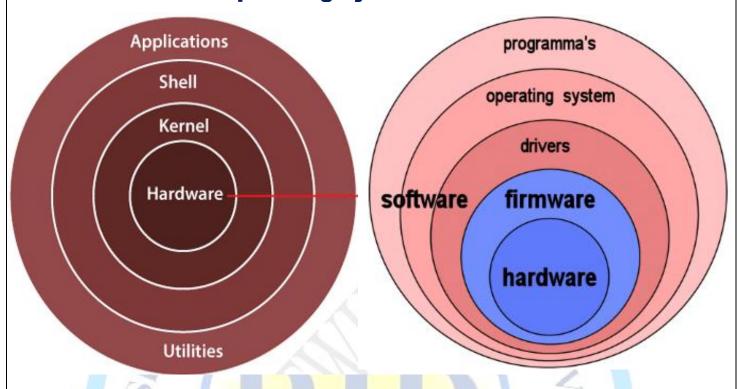








Structure of operating system:



Parts of operating system:

1. Kernel: -

Kernel is central component of an operating system that manages operations of computer and hardware.

2. Device Drivers: -

itis a computer program that operates or controls a particular type of device that is attached to a computer or automaton.

3. User Interface: -

it is a part of an operating system, program, or device that allows a user to enter and receive information. The user interface could be a basic command line interface (CLI) or a Graphical User Interface (GUI)

4. System Utilities: -

- A utility or software utility is computer system software intended to analyse, configure, monitor, or help maintain a computer.
- utilities refer to a set of specialized software tools and programs designed to help manage and maintain a computer system. These utilities are typically included as part of the operating system or can be installed separately to perform various tasks related to system administration, optimization, troubleshooting, and security.











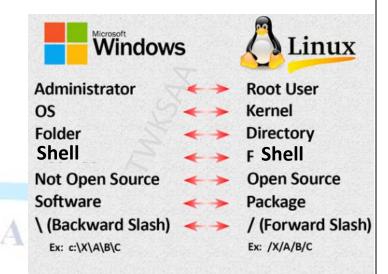
New Technology पर Research करने के लिए सम्पर्क करें: ridorg.in@gmail.com Mob.No: 9892782728 * Types of operating system: -Linux OS: - Linux is a family of open-source like- Unix operating systems based on the Linux kernel first released on September 17, 1991, by Linus Torvalds Linux is packaged as a Linux distribution. Developer: -Linus Torvald (University of Helsinki) & Community contributors Written: -Assembly language C and other Source model: -Open source Kernel type: -Monolithic OS family: -Unix **Initial release: -**September 17, 1991 **Marketing Target: -**Cloud computing, embedded devices, mainframe computers, mobile devices, personal computers, servers, supercomputers author of the Linux kernel Linux name Concept: -Linus Torvald (Developer)+ MiniX (O.S Developed By Andrew Tanenbaum) LINU X = LINUXLINUX= Linux is a Kernel (Kernel is main part of O.S) not an Operating LINUX O.S = Linux Kernel +GNU(Software) O.S User Interface = 1.GUI (Graphical User Interface) 2.CLI (Command Line interface) Architecture of Linux: -Applications **LINUX** Shell Kernel Hardware Terminals **Printers** Disks **Distribution of Linux: Utilities** Redhat Debian Third party

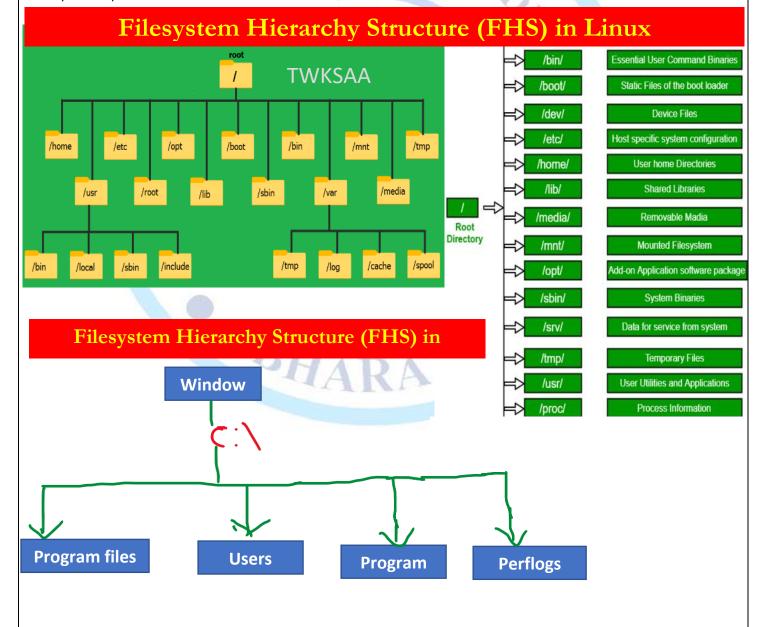


Features of Linux

- **Light Weight**
- · Multi user and Multi tasking
- Multi processor
- · Multi threading
- · Highly customizable
- Secure
- · Freely distributed and Open source
- Stable
- Network Friendlinesss

Simplified Update's for all installed software

















New Technology पर Research करने के लिए सम्पर्क करें: ridorg.in@gmail.com Mob.No: 9892782728 **Command:** - A command is an instruction given to our computer by us to do whatever we want. **Types:** - 1). Built-in shell commands: They are part of a shell. Each shell has some built in commands. 2). External commands: - it is a separate executable program written in C or other programming languages. **Directory:** - A directory is a location for storing files in computer. It is kind of folder. For become root user by use "sudo su" command [ec2-user@ip-172-31-8-170 ~]\$ [ec2-user@ip-172-31-8-170 ~]\$ [ec2-user@ip-172-31-8-170 ~]\$ sudo su [root@ip-172-31-8-170 ec2-user]# Sudo su (S-Super, U-user, D-do, S-switch U-user How to create a directory: - Command=mkdir directory name [ec2-user@ip-172-31-8-170 ~]\$ sudo su twksaa is directory name, mkdir is [root@ip-172-31-8-170 ec2-user]# command for crating directory [root@ip-172-31-8-170 ec2-user]# mkdir twksaa [root@ip-172-31-8-170 ec2-user]# ls twksaa "Is" means "list" this command use for [root@ip-172-31-8-170 ec2-user]# show directory is created or not. [root@ip-172-31-8-170 ec2-user]# How to create Multiple directory: - Command=mkdir dir1 dir2 dir3 [root@ip-172-31-8-170 ec2-user]# mkdir dir1 dir2 dir3 dir1 dir2 dir3 are directory name [root@ip-172-31-8-170 ec2-user]# ls dir1 dir2 dir3 [root@ip-172-31-8-170 ec2-user]# ❖ How to create directory inside directory: - Command=mkdir -p bharat/ mumbai/ andheri [root@ip-172-31-8-170 ec2-user]# mkdir -p bharat/mumbai/andheri [root@ip-172-31-8-170 ec2-user]# ls bharat [root@ip-172-31-8-170 ec2-user]# How to check current directory: - Command=pwd (present working directory) [root@ip-172-31-8-170 ec2-user]# mkdir -p bharat/mumbai/andheri [root@ip-172-31-8-170 ec2-user]# ls [root@ip-172-31-8-170 ec2-user]# pwd ec2-user is present working dire /home/ec2-user [root@ip-172-31-8-170 ec2-user]# How to change directory: - Command= cd directory name (cd:- change directory) [root@ip-172-31-8-170 ec2-user]# ls [root@ip-172-31-8-170 ec2-user]# pwd /home/ec2-user [root@ip-172-31-8-170 ec2-user]# cd bharat [root@ip-172-31-8-170 bharat]# ls mumbai [root@ip-172-31-8-170 bharat]# pwd arat is present working directory /home/ec2-user/bharat [root@ip-172-31-8-170 bharat]# **Directory Command**

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❖ How to go one step back from current directory: - Command= cd . .

```
[root@ip-172-31-8-170 bharat]# pwd
/home/ec2-user/bharat
[root@ip-172-31-8-170 bharat]# cd ...
[root@ip-172-31-8-170 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-8-170 ec2-user]#
```

❖ How to go multiple step back from current directory: - Command= cd ../../..

```
[root@ip-172-31-8-170 ec2-user]# cd bharat
[root@ip-172-31-8-170 bharat]# cd mumbai
[root@ip-172-31-8-170 mumbai]# cd andheri
[root@ip-172-31-8-170 andheri]# pwd
/home/ec2-user/bharat/mumbai/andheri
[root@ip-172-31-8-170 andheri]# cd ../../..
[root@ip-172-31-8-170 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-8-170 ec2-user]#
```

How to delete directory: - Command= rmdir directory name (only empty directory)

```
[root@ip-172-31-8-170 ec2-user]# cd bharat
[root@ip-172-31-8-170 bharat]# cd mumbai
[root@ip-172-31-8-170 mumbai]# rmdir andheri
[root@ip-172-31-8-170 mumbai]# cd..
bash: cd..: command not found
[root@ip-172-31-8-170 mumbai]# cd
[root@ip-172-31-8-170 bharat]# pwd
/home/ec2-user/bharat
[root@ip-172-31-8-170 bharat]# rmdir mumbai
[root@ip-172-31-8-170 bharat]# cd ..
[root@ip-172-31-8-170 ec2-user]# ls
[root@ip-172-31-8-170 ec2-user]# rmdir bharat
[root@ip-172-31-8-170 ec2-user]# ls
[root@ip-172-31-8-170 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-8-170 ec2-user]#
```

[root@ip-172-31-13-150 home]# cd / [root@ip-172-31-13-150 /]# ls

bin dev home lib64 media opt root sbin sys usr boot etc lib local mnt proc run srv tmp var [root@ip-172-31-13-150/]# cd ..











New Technology पर Research करने के लिए सम्पर्क करें: <u>ridorg.in@gmail.com</u> Mob.No: 9892782728 touch Command: -1.Access time & date touch 2. Modify time &date -used for create the file. 3.change time & date Create multiple empty file Create empty file Change all timestamp [...@...] \$ touch filename : [...@...] \$ touch file1 file2 file3 1. [...@...] # touch -m filename (modify time) 2. [...@...] # touch -r filename (update time) ec2-user@ip-172-31-43-105:~ 3.[...@...] # touch -t filename (with specific [ec2-user@ip-172-31-43-105 ~]\$ time) [ec2-user@ip-172-31-43-105 ~]\$ touch file1 4.[...@...] # touch -c filename (not empty file) [ec2-user@ip-172-31-43-105 ~]\$ touch file1 file2 touch file3 5. [...@...] # touch -a filename (change access $[ec2-user@ip-172-31-43-105 \sim]$ \$ ls & Modify time) file1 file2 file3 touch 6.[root@ip-172-31-14-212 new]# stat file3 [ec2-user@ip-172-31-43-105 ~]\$ stat command used for show timestamp of file and directory cat Command: -It is used for create a file & view contents cat command is used for copy the file [...@...] # cat >filename [...@...] # cat filename cat >>filename [...@...] # cat file1 file2 >>file3 [root@ip-172-31-43-105 ec2-user]# touch file2 [root@ip-172-31-43-105 ec2-user]# cat >file1 [root@ip-172-31-43-105 ec2-user]# cat >file2 welcome to twksaa tech training this is a socail organization [root@ip-172-31-43-105 ec2-user]# ls [root@ip-172-31-43-105 ec2-user]# cat >>file1 file1 file2 run by twf [root@ip-172-31-43-105 ec2-user]# cat file1 file2 >file3 [root@ip-172-31-43-105 ec2-user]# cat file1 [root@ip-172-31-43-105 ec2-user]# cat file3 welcome to twksaa tech training welcome to twksaa tech training run by twf run by twf this is a socail organization [root@ip-172-31-43-105 ec2-user]# [root@ip-172-31-43-105 ec2-user]# vi Command: [...@...] # vi filename nano Command: Press i (from keyboard) Write your contents [root@ip-172-31-43-105 ec2-user]# [...@...] # nano filename [root@ip-172-31-43-105 ec2-user]# ls Press Esc (from keyboard) file1 file2 file3 : wq [root@ip-172-31-43-105 ec2-user]# vi twksaa [root@ip-172-31-43-105 ec2-user]# cat twksaa Good Morning [root@ip-172-31-43-105 ec2-user]# nano t3 have a nice day [root@ip-172-31-43-105 ec2-user]# cat t3 : w - to save thank you for visit welcome to twksaa tech training : wq -to save & quit twksaa tech training -to quit : q [root@ip-172-31-43-105 ec2-user]# ls [root@ip-172-31-43-105 ec2-user]# ls file1 file2 file3 t3 twksaa -forcefully quit file1 file2 file3 twksaa [root@ip-172-31-43-105 ec2-user]# [root@ip-172-31-43-105 ec2-user]# Ctrl +X then Press Y Linux File Command (Where X & Y are capital **1 RID BHARAT** Page. No: 9 Website: www.ridbharat.com

in

New Technology पर Research करने के लिए सम्पर्क करें: ridorg.in@gmail.com Mob.No: 9892782728 **rmdir Command:** - it is used to remove empty directory. [...@...] # rmdir directory name rmdir -p Command: - remove both parent and child directory. [...@...] # rmdir -p directory name rmdir -pv Command: - remove both parent and child directory with verbose content rm -rf Command: - remove non-empty file & directory [...@...] # rm -rf directory 0r file forcefully rm -r Command: - remove empty directory [...@...] # rm -r directory name rm Command: - remove empty file [...@...] # rm file name rm -i Command: - remove a file interactively [...@...] # rm -i file name rm* Command: - remove file with some extension [...@...] # rm -i file name "file & directory Delete command" **TWKSAA** BHARAT **1 RID BHARAT** Page. No: 10 Website: www.ridbharat.com

New Technology पर Research करने के लिए सम्पर्क करें: ridorg.in@gmail.com Mob.No: 9892782728 [...@...] # mv old filename new filename my Command: - used for rename file & directory. [...@...] # mv old dire.name new dire.name [...@...] # mv file1 file2 [...@...] # mv source filename destination name **mv Command:** - used for **move** file & directory. [...@...] # mv source directory destination directory [...@...] # mv file1 file2 mv Command: - used for cut file & directory [...@...] # mv file1 file2 [...@...] # mv dire1 dire2 [...@...] # cat directory1 > directory2 [...@...] # cat directory1 >> directory2 cat Command: - used for copy file & directory. [...@...] # cat directory1 directory2 >> directory3 [...@...] # cat file1 > file2 [...@...] # cat file1 >> file2 [...@...] # cat file1 file2 >> file3 p: - used for **copy** file & directory. [...@...] # cp source filename destination name [...@...] # cp source directory destination directory "file & directory [...@...] # cp file1 file2 Rename, move, cut & copy command" [...@...] # cp dire1 dire2 **TWKSAA**

BHARAT











cat Command: - used to display the content of a file. (Top-Bottom)

```
[...@...] $ cat filename
                                                : To display the content of a file. (Top-Bottom)
  [...@...] $ cat > filename
                                                : To create a file.
 [...@...] $ cat oldfile > newfile
                                         : To copy content from older to new file.
 [...@...] $ cat [file1 file2 & so on] > [new filename] : To copy multiple files into one.
 [...@...] # cat -n/cat -b [fileName] : To display line numbers.
  [...@...] # cat -e [fileName]
                                                 : To display $ character at the end of each line.
[ec2-user@ip-172-31-40-148 ~]$
[ec2-user@ip-172-31-40-148 ~]$
[ec2-user@ip-172-31-40-148 ~]$ cat >file1
                                                           : [...@...] $ cat > filename
welcome to twksaa tech training
                                                                    : To create a file.
this organization run by twf
this is one of the best tech
service provider organization
in India
thanks for visit T3 organization.
[ec2-user@ip-172-31-40-148 ~]$ cat file1 > twksaa
[ec2-user@ip-172-31-40-148 ~]$ ls
                                                          [...@...] $ cat oldfile > newfile
file1 twksaa
[ec2-user@ip-172-31-40-148 ~]$ touch t3
                                                            :To copy from older to new file.
[ec2-user@ip-172-31-40-148 ~]$ ls
file1 t3 twksaa
[ec2-user@ip-172-31-40-148 ~]$ cat file1 twksaa >t3 [ec2-user@ip-172-31-40-148 ~]$ cat t3
                                                             [...@...] $ cat [file1 file2 & so on] >
welcome to twksaa tech training
this organization run by twf
                                                            [new filename] : To copy multiple
this is one of the best tech
                                                            files into one.
service provider organization
in India
thanks for visit T3 organization.
welcome to twksaa tech training
this organization run by twf
this is one of the best tech
                                                              [...@...] $ cat filename
service provider organization
in India
                                                              : To display the content of a file. (Top-
thanks for visit T3 organization.
[ec2-user@ip-172-31-40-148 ~]$
                                                              Bottom)
[root@ip-172-31-40-148 ec2-user]#
                                                          [...@...] # cat -n/cat -b [fileName]
[root@ip-172-31-40-148 ec2-user]# cat -n t3
        welcome to twksaa tech training
                                                                 : To display line numbers.
        this organization run by twf
this is one of the best tech
        service provider organization in India
thanks for visit T3 organization.
                                                          [...@...] # cat -e [fileName]
                  "t3"
      6
[root@ip-172-31-40-148 ec2-user]# cat -e t3
                                                           : To display $ character at the end of
welcome to twksaa tech training $ this organization run by twf$
                                                          each line.
this is one of the best tech $
service provider organization in India$ thanks for visit T3 organization.$
                                                             [...@...] # cat [fileName] <<EOF
        "t3"$
                                                             :Used as page end marker.
this organization run by twf
this is one of the best tech
```











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tac Command: - used to display the content of a file. (Bottom-top

[...@...] #tac filename

: To display the content of a file. (Bottom-Top)

```
[root@ip-172-31-40-148 ec2-user]# ls
file1 t3 twksaa
[root@ip-172-31-40-148 ec2-user]# tac t3
      "t3"
thanks for visit T3 organization.
service provider organization in India
this is one of the best tech
this organization run by twf
welcome to twksaa tech training
[root@ip-172-31-40-148 ec2-user]#
```

head Command:

- head filename (it reads first 10 lines)
- head -n 24 filename (it reads first 24 lines)

Note: - head -n +24 filename

where n= number of lines head -n 3 raj

[root@ip-172-31-40-148 ec2-user]# [root@ip-172-31-40-148 ec2-user]# head t3 welcome to twksaa tech training this organization run by twf this is one of the best tech service provider organization in India thanks for visit T3 organization. [root@ip-172-31-40-148 ec2-user]#

tail Command: -

- tail filename (it reads last 10 lines)
- tail -n 6 filename (it reads last 6 lines)
- tail +24 filename (it reads from 24th line to bottom

Where n= number of lines

```
[root@ip-172-31-40-148 ec2-user]#
[root@ip-172-31-40-148 ec2-user]# ls
file1 t3 twksaa
[root@ip-172-31-40-148 ec2-user]# tail t3
welcome to twksaa tech training
this organization run by twf
this is one of the best tech
service provider organization in India
thanks for visit T3 organization.
       "t3"
[root@ip-172-31-40-148 ec2-user]#
```

less and more Command: - The less and more commands are both used for viewing text files in the terminal in Linux. Press the q key: to exit less & more

```
[root@ip-172-31-40-148 ec2-user]#
[root@ip-172-31-40-148 ec2-user]#
welcome to twksaa tech training
this organization run by twf
this is one of the best tech
service provider organization in India
thanks for visit T3 organization.
       "t3"
[root@ip-172-31-40-148 ec2-user]#
```

echo Command: - used to display same as it same content. [...@...] # echo

wc Command: - used to count no of word and character [...@...]wc filename













list command

[root@ip-172-31-5-58 twksaa]# history: this command will show all command what is used during current working day.

BHARA

.bash logout .bash profile .bashrc dirl filel .file2 .ssh t3

rw-rw-r-- 1 ec2-user ec2-user 165 Feb 10 07:40 file1

[root@ip-172-31-40-148 ec2-user]# ls -a

[root@ip-172-31-40-148 ec2-user]# clear













grep Command: - "Global Regular Expression Print" it is used print similar word. It is case sensitive.

```
it's process line by line
```

```
[...@...] # grep 'word name' filename ex: - [...@...] # grep 'twksaa' t3
[...@...] # grep -i 'word name' filename ex: - [...@...] $ grep -i twksaa t3
(Ignore case sensitive)
[...@...] # grep -R
ex: - [...@...] # grep -R -i 'twksaa'
(Search in present directory and subdirectory)
```

```
[root@ip-172-31-40-148 ec2-user]#
[root@ip-172-31-40-148 ec2-user]#
[root@ip-172-31-40-148 ec2-user]# grep twksaa t3
welcome to twksaa tech training
twksaa means techonoly provider org.
[root@ip-172-31-40-148 ec2-user]# grep -i twksaa t3
welcome to twksaa tech training
twksaa means techonoly provider org.
TWKSAA Tech Training.
[root@ip-172-31-40-148 ec2-user]# grep -i twksaa*
```

sed Command: - "stream editor" it is used to replace text or content without open a file.

```
[...@...] # sed filename ex: - [...@...] # sed 's/this/he/' file2 (original file will not change)
[...@...] # sed -i filename ex: - [...@...] # sed -i 's/this/he/' file2 (original file will be change)
[...@...] # sed -i '3d' filename ex: - [...@...] # (3rd line will be delete)
[...@...] # sed -i '$d' filename ex: - [...@...] # (last line will be deleted)
[...@...] # sed -i '12,$d' filename ex: - [...@...] # (last 12 line will be deleted)
[...@...] # sed -i 'n,$d' filename ex: - [...@...] # (last nth line will be deleted)
```

Grep & sed command" TWKSAA













File permission modify Command

Chmod command

Chown command

chgrp command

Chmod command

chmod command is used to change access mode of file and directory.

Access Mode		File	Directory	File Permission Function
r	4	-isplay content	dList content	Read
W	2	Modify	Remove	Write
Х	1	execute	Enter into directory	Execute
	50	-rwxrwxrwx	drwxrwxrwx	

	Physical Control of the Control of t	
1	х	x-execute
2	w	w-write
4	r	r-read
3=2+1	(w+x)	wx
5=4+1	(r+x)	rx
6=4+2	(r+w)	rw
7=4+2	+1(rwx)	rwx

- User(u)
- ➢ Group(g)
- Other(o)
- " used for add "rwx" permission in "ugo"
- for remove permission in "ugo"
- 1. [...@...] # chmod u+rwx filename
- 2. [...@...] # chmod o+rwx filename
- 3.[...@...] # chmod g+rwx filename
- 4.[...@...] # chmod u-rwx filename
- 5. [...@...] # chmod g-rwx filename
- 6. [...@...] # chmod o-rwx filename
- 7. [...@...] # chmod u+r filename
- 8. [...@...] # chmod o+w filename
- 9.[...@...] # chmod g+x filename
- 10.[...@...] # chmod u-r filename
- 11. [...@...] # chmod g-w filename
- 12. [...@...] # chmod o-x filename

- 1. [...@...] # chmod 777 filename
- 2. [...@...] # chmod 321 filename
- 3.[...@...] # chmod g+r filename
- 4.[...@...] # chmod u-rw filename
- 5. [...@...] # chmod g-rx filename
- 6. [...@...] # chmod o-wx filename
- 7. [...@...] # chmod u+r filename
- 8. [...@...] # chmod o+rw filename
- 9.[...@...] # chmod g+wx filename
- 10.[...@...] # chmod u-rx filename
- 11. [...@...] # chmod g-rw filename
- 12. [...@...] # chmod o-xr filename















How to Create user and Group in Linux

How to become root user

[...@...] \$ sudo su

How to change user name

[root@ipec2-user]# sudo su username [root@ipec2-user]# sudo su raj

How come outside from rooter user

[root@ec2-user]# exit

How to check who am I means I am root user or not

[ec2-user@ ~]\$ whoami

How Create user in linux

[...@...] \$ sudo useradd username [ec2-user@ ~]\$ sudo useradd ashok [ec2-user@ ~]\$ sudo su [root@ ec2-user]# useradd raj

How can get user id

[...@...] # id username [...@...] # id raj uid=1006(raj) gid=1006(raj) groups=1006(raj)

How to create a group

[...@...] # groupadd groupname [...@...] # groupadd developer

How to show all group

[root@ip-172-31-6-167 home]# cat /etc/group

How shows all user

[root@ip-172-31-6-167 home]# cat /etc/passwd

How to shows last 3 user

[root@ip-172-31-6-167 home]# tail -3 /etc/passwd

How to add user into a group

[root@ip-172-31-6-167 home]# usermod -aG groupname username [root@ip-172-31-6-167 ec2-user]# usermod -aG developer raj [root@ip-172-31-6-167 ec2-user]# id raj uid=1006(raj) gid=1006(raj) groups=1006(raj),1007(developer)

Remove User from the group

[root@ ec2-user]# gpasswd -d username groupname [root@ip-172-31-6-167 ec2-user]# gpasswd -d raj developer Removing user raj from group developer [root@ip-172-31-6-167 ec2-user]# id raj uid=1006(raj) gid=1006(raj) groups=1006(raj)

How to delete User

[root@ipec2-user]# userdel username [root@ipec2-user]# userdel raj

How to delete group

[root@ipec2-user]# groupdel groupname [root@ipec2-user]# groupdel developer

How to check user are belongs to a particular group

[root@ipec2-user]# lid -g groupname [root@ipec2-user]# lid -g developer













Chown command

chown command is used for change ownership of file and

We can change user name also by using chown command

[...@...] # touch filename → create one file

[...@...] # touch file1

We can see owner of the file by using

[...@...] # ls -l

How to show all group

[root@ip-172-31-6-167 home]# cat /etc/group

How shows all user

[root@ip-172-31-6-167 home]# cat /etc/passwd

Changing owener of a file

[...@...] \$ sudo chown username filename [root...@...] # chown username filename [...@...] # chown raj file1

Changing owener of a directory

[...@...] \$ sudo chown username directoryname [root...@...] # chown username directoryname [...@...] # chown ram dir1

- You can change the user ownership by using user-id also
- How to check user id

[...@...] # id username

[...@...] # chown u-id file1 (change ownership by user id)

How to change the group of a file

[...@...] # chown :groupname filename

[...@...] # chown :developer raj

Chgrp command

chgrp command is used for change group of file and directory.

[...@...] \$ sudo su

[...@...] # chgrp groupname filename

[...@...] # chgrp groupname directoryname

[...@...] # chgrp developer raj

[...@...] # chgrp devops dir1

























New Technology पर Research करने के लिए सम्पर्क करें: <u>ridorg.in@gmail.com</u> Mob.No: 9892782728 ifconfig Command: "Display and manipulate route and network interface configuration ip Command: - replacement of ifconfig command traceroute Command: - network troubleshooting utility tracepath Command: - find path netstat Command: -Display connection of netstat (get information from kernel usespace) ss Command: - replacement of nestat command dig Command: - query DNS (domain information group) route Command: show and manipulate Ip routing table host Command: - performs DNS lookups display DNS for given IP arp Command: - view or add contents (address resolution protocol) Hostname Command: - network name wconfig Command: - wireless network interface view wi-fi details whois Command: - website whoami Command: - display Ifconfig cat/etc/os-release Command: - Os version Hostname -i Command: - Ip will show export Command: - exports shell variables to other shells yum install httpd: yum update httpd: service httpd start: service httpd status: service httpd stop: yum list installed chkconfig httpd on: which Command: - Display usage yum remove httpd: -"LINUX Networking command" **TWKSAA**









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What is RID Organization (RID संस्था क्या है)?

- RID Organization यानि Research, Innovation and Discovery Organization एक संस्था हैं जो TWF (TWKSAA WELFARE FOUNDATION) NGO द्वारा RUN किया जाता है | जिसका मुख्य उदेश्य हैं आने वाले समय में सबसे पहले NEW (RID, PMS & TLR) की खोज, प्रकाशन एवं उपयोग भारत की इस पावन धरती से भारतीय संस्कृति, सभ्यता एवं भाषा में ही हो |
- देश, समाज, एवं लोगों की समस्याओं का समाधान NEW (RID, PMS & TLR) के माध्यम से किया जाये इसके लिए ही इस RID Organization की स्थपना 30.09.2023 किया गया है | जो TWF द्वारा संचालित किया जाता है |
- TWF (TWKSAA WELFARE FOUNDATION) NGO की स्थपना 26-10-2020 में बिहार की पावन धरती सासाराम में Er. RAJESH PRASAD एवं Er. SUNIL KUMAR द्वारा किया गया था जो की भारत सरकार द्वारा मान्यता प्राप्त संस्था हैं।
- Research, Innovation & Discovery में रूचि रखने वाले आप सभी विधार्थियों, शिक्षकों एवं बुधीजिवियो से मैं आवाहनं करता हूँ की आप सभी इस RID संस्था से जुड़ें एवं अपने बुध्दि, विवेक एवं प्रतिभा से दुनियां को कुछ नई (RID, PMS & TLR) की खोजकर, बनाकर एवं अपनाकर लोगों की समस्याओं का समाधान करें |

MISSION, VISSION & MOTIVE OF "RID ORGANIZATION"				
मिशन	हर एक ONE भारत के संग			
विजन	TALENT WORLD KA SHRESHTM AB AAYEGA भारत में और भारत का TALENT भारत में			
मकसद	NEW (RID, PMS, TLR)			

MOTIVE OF RID ORGANIZATION NEW (RID, PMS, TLR) NEW (RID) R I D Research Innovation Discovery NEW (TLR) T L R Technology, Theory, Technique Law Rule NEW (PMS) P M S Product, Project, Production Machine Service



RID रीड संस्था की मिशन, विजन एवं मकसद को सार्थक हमें बनाना हैं | भारत के वर्चस्व को हर कोने में फैलना हैं | कर के नया कार्य एक बदलाव समाज में लाना हैं | रीड संस्था की कार्य-सिध्दांतों से ही, हमें अपनी पहचान बनाना हैं |

Er. Rajesh Prasad (B.E, M.E)

Founder:

TWF & RID Organization











1 RID BHARAT Page. No: 22 Website: www.ridbharat.com

Linux के इस E-Book में अगर koee मिलती त्रुटी मिलती है तो कृपया हमें सूचित करें।

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BHARA









