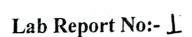


TRIBHUVAN UNIVERSITY

INSTITUTE OF SCIENCE AND TECHNOLOGY



HIMALAYA COLLEGE OF ENGINEERING CHYASAL, LALITPUR



Title:- Interoduction to commands in UBUNTU

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Department Of CSIT

Checked by:-

Date of submission: - 2080/03/29

TITLE: Introduction to Commands 91 UBUNITU.

OBJECTIVE:

Finched and use basic linux commands, fincheding terminal navigation, file handling and the commands usage. This lab introduces essential to commands and their practical applications in the ubuntu operating system.

THEORY :

Tinux commands are instructions input into a terminal to perform specific tasks. The terminal allows users to interact directly with the Os. Commands in linux range from basic file handling to complex system administration tasks.

· Jerminal Shoutcut?

-> Ctail + Alt + To opens the terminal Pri ubuntu.

· Basic Commands :

- I. echo" helloworld": print's "helloworld" to terminal.
- 2. cal: Displays the convent months calonder.
- 3. clean; cleans the terminal screen.

file dystem & commands;

in linux everything is considered a file including directories, hardware devices and even network socices. This unifield file system approach the simplifies interaction with the system.

- a, user commands to commands that can be executed by the user from the shell. These we the most common commands and include utilities like 'is', 'echo', and 'man'.
- by orystem calls: functions provided by the kernal that can be called by user programs to perform lower-level operations. Examples include open, 'read', and write'.
- C, C Liberary functions : standard functions provided by the e liberary, duch as printf!, 'malloc', and exit.
- d, Devices and special files. Documentation on the special files found in 1/devi, such as device drivers for handware.
 - e, file fournats : Descriptions of various file formats including configuration files & data formats.
 - for Games & Documentation for games and screen savers available on the System.
 - g, the scellaneous & various topic that don't fit into the other sections, such as macro packages and conventions.
 - h, system Administration of Commands and informations used by system administrators for the system maintenance and configuration, such as 'iptables', 'mount', and 'cron'.

The linual manual pages or man pages, one a det of obline documentation that provide information about commands, system cans, the library functions and more. The man pages are divided into dections, each covering a specific category of commands or functions. Thus, this were some manual strauctures.

+ Common Commands of Their manual dections:

- · mon 1 which: Displays the manual for the 'which' command, which locates a command.
- man 1 (3° Displays the manual for the'ls' command, which lists dimectory Contents.

A Basic commands:

3, Echo "helloworld":

(F)

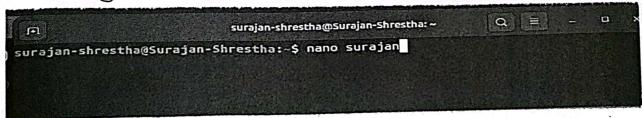
surajan-shrestha@Surajan-Shrestha: ~

surajan-shrestha@Surajan-Shrestha:~\$ echo "helloworld" helloworld 2, cal ?

3, clean ?

by file Handeling Commands:

1, cueating and viewing files:



surajan-shrestha@Surajan-Shrestha:~ Q = - - >

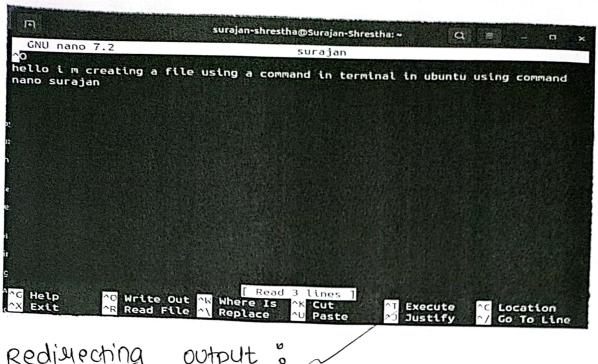
surajan-shrestha@Surajan-Shrestha:~\$ cat surajan

^O

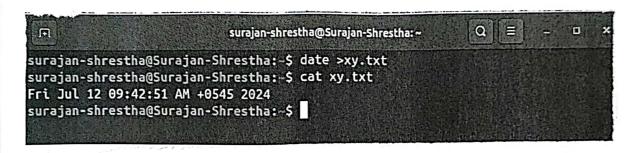
hello i m creating a file using a command in terminal in ubuntu using command

nano surajan

surajan-shrestha@Surajan-Shrestha:~\$

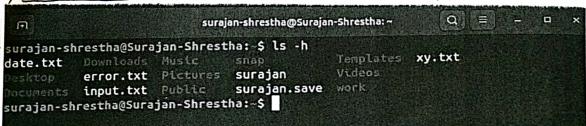


2, Redistecting



3, cut command? is scut < date txt -- delimiter " " --fields 1

```
surajan-shrestha@Surajan-Shrestha: ~
surajan-shrestha@Surajan-Shrestha: $ date > date.txt
surajan-shrestha@Surajan-Shrestha:⊸$ ls
date.txt
          Downloads Music
                                              Templates xy.txt
                                              Videos
          error.txt Pictures surajan
 ocuments input.txt Public surajan.save work
surajan-shrestha@Surajan-Shrestha:-$ cat date.txt
Fri Jul 12 09:48:56 AM +0545 2024
surajan-shrestha@Surajan-Shrestha: $ cut < date.txt --delimiter=" " --fields=1
surajan-shrestha@Surajan-Shrestha:-$
```



2, \$13一片一片:

IR.	Sur	ajan-shrestha@Surajan-	Shresth	a: ~		Q		_	•	,
surajan-shrestha@Sura total 56K	jan-Shres	tha: \$ ls -l -h								
-rw-rw-r 1 surajan-	shrestha	surajan-shrestha	34	Jul	12	09:48	date.	txt		
drwxr-xr-x 4 surajan-	shrestha	surajan-shrestha	4.0K	Jul	3	07:46	Deskt	90		
drwxr-xr-x 2 surajan-	shrestha	surajan-shrestha	4.0K	Jun	23	20:06	Docum	ents		
drwxr-xr-x 2 surajan-	shrestha	surajan-shrestha	4.0K	Jun	29	12:49	Downt	oads		
-rw-rw-r 1 surajan-	shrestha	surajan-shrestha	0	Jul	12	09:40	еггог	.txt		
-rw-rw-r 1 surajan-	shrestha	surajan-shrestha	0	JUL	12	09:40	input	.txt		
rwxr-xr-x 2 surajan-										
rwxr-xr-x 3 surajan-	shrestha	surajan-shrestha	4.0K	Jun	29	15:41	Pirms			
rwxr-xr-x 2 surajan-	shrestha	surajan-shrestha	4.0K	Jun	23	20:06	Put 14			
rwx 7 surajan-										
rw-rw-r 1 surajan-	shrestha	surajan-shrestha	94	Jul	12	09:32	GUIGEGE			
rw-rw-r 1 surajan-	shrestha	surajan-shrestha	4	Jul	12	09:26	and the		ave.	
rwxr-xr-x 2 surajan-	shrestha	surajan-shrestha	4.0K	Jun	23	20.06	Town T			
rwxr-xr-x 2 surajan-	shrestha	surajan-shrestha	4.0K	Jun	23	70.06				
rwxrwxr-x 3 surajan-	shrestha	surajan-shrestha	4.0K	Jun	23	15.14	v tueo:			
rw-rw-r 1 surajan-	shrestha	surajan-shrestha	34	Tim1	15	00:42	CATALON TO S			
urajan-shrestha@Sura	ian-Shres	that G	701			U5342	xy. LX			

Discussion:

In this lab, we explosed various fundamental commands in ubuntu linux. These commands serves as building blocks for more advanced operations and understanding the linux operating system. The 'echo', 'cal' and 'clear' commands demonstrate basi'c terminal interactions. The file handling commands, including 'nano', 'cat', 'date', and 'cut' illustrate how to create, view and manipulate files. Listing commands like 'ls-h' and 'ls-l-h' show how to display files in a directory with human readable formats.

understanding the structure of the manual (iman' pages) is crucial for self-learning and trouble shooting in linux. The 'man' command provides detailed information about other commands, including their options and usage.

CONCLUSION:

This lab provided an introduction to essential linual commands and their practical usage. By mastering these commands users can efficiency interact with the ubuntu operations system, manage files and whilize the terminal for various tasks. The knowledge gained from this lab forms the foundation for more advanced linual operations and objection administration tasks.