(5) A(list(1)) :- Allow a user to view the contents of a direc

LAB

ctrl+D exit from

Linux shell :- Shell provide an environment to user to execute commands and interact with kernel.

Different types of shell

- bash :- command - language interpreter
- Bourne shell (sh) :-
- C shell (csh) :- based of C programming
- Korn shell (ksh) :- command line editing, aliases, function
- tsh
- fish

echo $0 → type of shell

Shell script consists of set of commands to perform a task. All the commands execute sequentially.

#!/bin/bash

vi h3.sh

ls - ltr (file permissions view)

Run using

- ./script.sh
- /path/script.sh
- bash script.sh

ctrl + c terminate

ctrl + z to stop

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ctrl+C
:wq → save & exit
:q! → discard & exit

Peacock
Date: / /
Page No.

chmod +x filename.sh → used to add permission

#this is a commen

<< comment
this
is
Multi
line
commen
must be save

Variable

Var-name = value
echo $Var-name

Var_name = $(hostname)

IF-else

if [$marks -gt 40]
then
echo "You are pass"
else
echo "You are fail"
fi

Taking input from user

read var-name
read -p "Your name" Name

Arithmetic operations

Using let command
let a++
let a = 5*10
((a++))
((a=5*10))

Equal -eq / ==
greater than or equal to -ge
less than or equal to -le
Not equal -ne / !=
Greater than -gt
less than -lt

if [$marks -ge 80]
then
echo "First Division"
eif [$marks -ge 60]
then
echo "Second Division"
else echo "Fail"
fi

-eq → numeric
== → string

Logical operator (&& , || , !)
↓ and ↓ or

if [[$age -ge 18]] && [[$country == "India"]]
then

for Loop

```
for i in 1 2 3 4 5
do
   echo "Number is $i"
done
```

→ space seperated

```
for j in Raju Sham Baburao
for p in {1..20}
```

While loop

```
count=0
num=10
while [ $count -le $num ]
do
   echo "Numbers are $count"
   let count++
done
```

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Linux

① ls →

② cp → cp currentfile.sh copiedfile.sh

③ mv → move or rename

mv main-backup.py backup.py → rename

mv backup.py rohan/backup.py → move file

④ rm → remove a file

rm -r python & remove directory with its contents

⑤ touch → create a new empty file

touch sha.txt

⑥ cat → ~~contatenate~~ and display files

⑦ man → manual for a command

man ls

⑧ htop → an interactive process viewer

⑨ chmod :- change the permission of a file or directory

0 → no permission

1 → execute only chmod 700 file.text

2 → write "

3 → write & execute

4 → read only

5 → read & execute

6 → read and write

7 → read, write & execute

⑩ gzip → compress file gzip file.txt

⑪ gunzip → decompress compressed file gunzip file.txt.gz

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(12) date

(13) whoami

(14) ~~where~~ → ~~wl~~

(15) ~~for~~ which → locate a program or command in the system path

(16) finger → display all information about user

(17) uname → display system information

(18) history → display a list of previously executed commands

(19) echo

(20) tee → redirect output to both a file and the console

ls | tee file.txt

(21) locate → locate file.txt

(22) sort → sort lines of text in a file

cat harry.txt

sort harry.txt

(23) uniq → remove duplicates from a file

uniq file.txt

(24) head / tail

tail -2f harry.txt

(25) lp → print the file

(26) more → display file's content, one page at a time, easy to navigate.

(27) mail :- mail -s "subject" <address

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Ctrl + Alt + t → opening terminal

pwd → present working directory
cd → change directory
ls → list all directory in current working directory

ls [options] [file/directory]

ls Documents /
clear → scroll down
ls ~ → same as ls
ls .. → one folder back
ls ../.. → list all the directory in previous directory
ls -l → list all the directory in details

drwxr → d → director ; r → read ; w → write ; x → execute
ls -a → hidden files in the current directory
ls -al → details of hidden files in ".." "."
ls -ls → details of all directory in sorted order
ls Documents/*.html → files .html extension only
ls -ls > out.txt → create a file out.txt with details of ls-ls in them

ls -d*/ → list out all directory only not file
man ls → list all the operations of the commands with ls
cd → home directory
cd .. → one folder above
cd ~ → to home directory
cd My\ Books → change directory to My Books
cd "My Books"

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