1)cat command

$ cat > atul -create file &write

$ cat >>atul -apend file to write

$ cat atul -read file

$ cat atul > file1 -copy

$ ls -list all file

2)touch command

$ touch file2 file3

3)vi or vim command

$ vi atul

4)nano command

$ nano atul

5)other commands

clear -clear screen

state atul

states atul

ls -a -hidden file show

history -all command history

mkdir dir1 -make diectory (folder)

$ mkdir -p dir5/dir6 -make diectory/dir

cd dir1 -currnt directory

cd.. -go to parent directory

cp file1 file4 -copy

mv file4 dir1 -move fle4 to dir1

rmdir dir2 -delete dir2

ls -l -long list

ls -al -all hiden file long list

head file1 -10 line from 1st line

tail file1 -10 line from last line

more file1

hostname -hostname

ifconfig -ipaddress

cat /etc/os realease

cat/etc/os-rel\*

whoami -user

which xyz -to check 1 packeg insall or not

6)importent command for virsion

$ php -v

sudo apt install php7.4-cli

$ mysql --v

sudo apt install mysql-client-core-8.0

$ apache2 -v

sudo apt install apache2-bin

$ tree

sudo apt install tree

7)imp command

$ sudo useradd avi -to add user

$ cat /etc/passwd -to check user

$ groupadd grop1 -to add group

$ cat /etc/group -to check group

$ ln -s file1 softfile1 -to create soft file like sortcut

$ ln file2 backupfile2 -to create backupfile

tar -cvf dir1.tar dir1 -to create tar fle (like zipfile)

gzip dir1.tar -to create zipfile and compress

gunzip dir1.tar.gz -unzip zipfile

tar -xvf dir1.tar -tar file to normal file

wget url -download file

8)access mode / permissions

[u =owner/user , g= group user,o= other user, a= all user]

chmod

$ chmod 777 file3

chown

$ sudo chown avinash file3

chgrp

$ sudo chgrp avi file3

1)apache mysql php

apache

sudo apt update

sudo apt install apache2

sudo ufw app list

sudo ufw allow 'Apache Full'

sudo ufw status

sudo systemctl status apache2

or

sudo apt install lamp-server^

sudo service apache2 start

sudo service apache2 status

mysql

sudo service mysql start

sudo service mysql status

or

sudo apt install mysql-server

sudo service mysql status

sudo service mysql start

sudo mysql\_secure\_installation(with password)

sudo vim /etc/phpmyadmin/config.inc.php

php

sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl

sudo apt remove phpmyadmin php-mbstring php-zip php-gd php-json php-curl

sudo nano /var/www/html/info.php

appache config,root,errorlog

/etc/apache2/apache2.conf

/var/www/html

/var/log/apache2/error.log

mysql config,root,errorlog

/etc/mysql/my.cnf

/var/lib/mysql

/var/log/mysql/error.log

php config,root,errorlog

/var/www/html

/etc/php/5.6/cgi/php.ini

/var/www/html/hello.php

/var/log/apache2/error.log

//////////\*\*\*\*\*\*mysql imp\*\*\*\*\*\*\*//////////

CREATE DATABASE contacts\_db;

$ sudo mysql -u root -p

mysql> SHOW DATABASES;

mysql> CREATE DATABASE mydatabase;

USE mydatabase;

CREATE TABLE books(

title VARCHAR(50) NOT NULL,

price INT NOT NULL,

language VARCHAR(50) DEFAULT "ENGLISH",

author VARCHAR(50) NOT NULL);

DESCRIBE books;

INSERT INTO books VALUE("Book title",50.00,"HINDI","Author Name");

SELECT \* FROM books;

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/etc/my.cnf /etc/mysql/my.cnf ~/.my.cnf

mysqldump

mysqldump -u (user) -p(passwd) -h (host\_or\_IP) database\_to\_backup > backup\_file.sql

example:

mysqldump -u god -pheaven -h 10.0.10.10 accounting > accounting\_20141209.sql

for single database

sudo mysqldump -u root -h localhost -p mydatabase > mydatabase.sql

sudo mysqldump -u root -h localhost -p mydb1 > mydatabase.sql

sudo mysqldump -u root -h localhost -p mydatabase > db1.sql

ls -lh mydatabase.sql

for multiple database

sudo mysqldump -u root -h localhost -p --database ddb1 db2 > two\_db.sql

for All database

sudo mysqldump -u root -h localhost -p --all-database > all\_db.sql

for database and table

sudo mysqldump -u root -h localhost -p db1 wp\_post wp\_user > two\_tables.sql

ls -lh \*.sql

for restore

for all restore

sudo mysqldump -u root -h localhost -p < all\_db.sql

for single restore

sudo mysqldump -u root -h localhost -p db < db1.sql

for multiple restore

sudo mysqldump -u root -h localhost -p < two\_db.sql

for database and table restore

sudo mysqldump -u root -h localhost -p db1 < two\_tables.sql

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*cron job \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

sudo service cron status

sudo service cron start

crontab -l

crontab -e

55 14 \* \* \* touch abc

\*\*\*\*\* cd/home/atul/scripts && ./create\_file.sh

\*(min) \*(h) \*(day of the month 1-31) \*(month 1-12) \*(dow 0-6 sunday=0)

https://crontab.cronhub.io/

55 14 \* \* \* touch abc

Mysql

$ sudo mysql -u root -p

mysql> SHOW DATABASES;

CREATE DATABASE contacts\_db;

USE contacts\_db;

CREATE TABLE contact(

contact\_no INT NOT NULL);

DESCRIBE contact;

INSERT INTO contact VALUE(982144444);

SELECT \* FROM contact ;

sudo mysqldump -u root -h localhost -p contacts\_db> contacts\_db.sql

sudo mysqldump -u root -h 10.10.10.5 -p contacts\_db< contacts\_db.sql

sudo service cron status

sudo service cron start

crontab -l

crontab -e

0 11 \*/ \* \* sudo service apache2 restart

Shell scripting

1)Test

#!/bin/bash

echo hellow

2)variable.sh

#!/bin/bash

name=atul

age=28

echo my name is $name and age is $age

3)ifelse.sh

#!/bin/bash

echo what is your age

read age

if [ $age -ge 18 ]

then

echo you can vote

else

echo you can not vote

fi

4)swich.sh

#!/bin/bash

echo press any option

echo 1 = show date

echo 2 = list file

read choice

case $choice in

1)date;;

2)ls -l;;

\*)echo not option

esac

5)forloop.sh

#!/bin/bash

for num in {1..10}

do

echo number is $num

done

6)whileloop.sh

#!/bin/bash

num=10

count=0

while [ $count -le $num ]

do

echo $count

let count++

done

7)iterate.shvi

#!/bin/bash

names="/home/atul/scripts/name"

for name in $(cat $names)

do

echo casts in movie is $name

done