Practical Questions.

#### 1 man

```
NAME

date - print or set the system date and time

SYNOPSIS

alse [ORITON]... [AKDEMAT]
date [culi-universal] [MMODDhhmm[[CC][YY][Lsg]]

DESCRIPTION

Display the current time in the given FORMAT, or set the system date.

Mandatory arguments to long options are mandatory for short options too.

-d, --date-STRINS
display time described by STRING, not 'now'

-f, --file-DATEFILE
like --date once for each line of DATEFILE
-I(ITMESPEC), --long-600[=TIMESEC]
output date/time in ISO 8601 format. TIMESPEC-'date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision.

-r, --reference-FILE
display the last modification time of FILE

-R, --rtfc-2822
cutput date and time in RFC 2822 format. Example: Mon, 07 Aug 2006 12:34:56 -0600

--rfc-3339=TIMESPEC

output date and time in RFC 3339 format. TIMESPEC-'date', 'seconds', or 'ns' for date and time to the indicated precision. Date and time components are separated by a single space: 2006-08-07 12:34:56-06:00

-s, --set-STRINS
set time described by STRING
-u, --uuc, --universal
print or set Coordinated Universal Time (UTC)
--help display this help and exit
---verrion

Annual page date(i) line | (press h for helpfor q to quit]
```

## 2 ls

3 . List the contents of a directory and their attributes Ls -l command used for list the file.

```
[root@ip-172-31-40-84 ec2-user]# ls -l
total 0
drwxr-xr-x 2 root root 6 Nov 2 18:54 File1
[root@ip-172-31-40-84 ec2-user]#
```

4.

Cd is used for change directory,

Touch is used for create new file,

Cat> filename is used for edit the file.

```
[root@ip-172-31-40-84 ec2-user]# cd File1/
[root@ip-172-31-40-84 File1]# touch info.txt
[root@ip-172-31-40-84 File1]# cat > info.txt
Hii all Welcome to Capgemini
Wish you Happy Diwali
[root@ip-172-31-40-84 File1]# cat info.txt
Hii all Welcome to Capgemini
Wish you Happy Diwali
[root@ip-172-31-40-84 File1]# du -h info.txt
4.0K info.txt
[root@ip-172-31-40-84 File1]#
```

5.

Show all files and folders including hidden one.

Ls -a shows the hidden file.

```
[root@ip-172-31-40-84 File1]# ls -a
. .. info.txt
[root@ip-172-31-40-84 File1]#
```

### 6 . list directories recursively

Ls -R command used for listing directory recursively.

```
[root@ip-172-31-40-84 File1]# ls -R
.:
info.txt
[root@ip-172-31-40-84 File1]#
```

```
[root@ip-172-31-40-84 File1]# 1s -lt
cotal 12
-rw-r--r- 1 root root 53 Nov 2 19:01 project.txt
-rw-r--r- 1 root root 13 Nov 2 19:00 infol.txt
-rw-r--r- 1 root root 51 Nov 2 18:56 info.txt
[root@ip-172-31-40-84 File1]#
```

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```
[root@ip-172-31-40-84 File1]# which httpd
/sbin/httpd
[root@ip-172-31-40-84 File1]#
```

10. cd.. command is used for switch the directory.

```
[root@ip-172-31-40-84 File1]# cd ..

[root@ip-172-31-40-84 ec2-user]# ls

File1

[root@ip-172-31-40-84 ec2-user]# cd File1/

[root@ip-172-31-40-84 File1]#
```

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14.

Print the value of the env variable "PATH" on the console

```
[root@ip-172-31-40-84 File1]# echo $PATH
/sbin:/bin:/usr/sbin:/usr/bin
[root@ip-172-31-40-84 File1]#
```

16. Display your currently logged in user

```
[root@ip-172-31-40-84 File1]# whoami
root
```

17. how do you change the currrently logged in user to another user?

```
[root@ip-172-31-40-84 File1] # useradd user1
[root@ip-172-31-40-84 File1] # su -user1
```

```
[root@ip-172-31-40-84 File1] # su -1 user1
[user1@ip-172-31-40-84 ~]$ whoami
user1
[user1@ip-172-31-40-84 ~]$
```

#### 23-27

```
31-40-64.ap-south-1.compute.internal 4.14.248-189.473.amzn2.x86_64 #1 SMF Mon Sep 27 05:52:26 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux 81.40-64 ~] # uname -n 84.ap-south-1.compute.internal 31-40-84 ~] # uname -r 44.31-40-84 ~] # uname -r 45.31-40-64 ~] # uname -v 5 27 05:52:26 UTC 2021 31-40-84 ~] # uname -v 5 27 05:52:26 UTC 2021 31-40-84 ~] # uname -v 5 27 05:52:26 UTC 2021 31-40-84 ~] # uname -m
  9ip-172-31-40-84 ~]# uname -o
t@ip-172-31-40-84 ~]#
```

```
[root@ip-172-31-40-84 ~] # mkdir File
[root@ip-172-31-40-84 ~]# ls
File
[root@ip-172-31-40-84 ~] # cd File/
[root@ip-172-31-40-84 File]# pwd
/root/File
[root@ip-172-31-40-84 File]#
```

```
[root@ip-172-31-40-137 ec2-user]# mkdir file1
[root@ip-172-31-40-137 ec2-user]# mkdir file2
[root@ip-172-31-40-137 ec2-user]# cd file
bash: cd: file: No such file or directory
[root@ip-172-31-40-137 ec2-user]# cd file1
[root@ip-172-31-40-137 file1]# cd ..
[root@ip-172-31-40-137 ec2-user]# ls
file1 file2
[root@ip-172-31-40-137 ec2-user]# cd home/
bash: cd: home/: No such file or directory
[root@ip-172-31-40-137 ec2-user]# cd home
bash: cd: home: No such file or directory
[root@ip-172-31-40-137 ec2-user]# cd /home
[root@ip-172-31-40-137 home]# ls
ec2-user
```

```
[root@ip-172-31-40-137 home] # history
     mkdir file1
   2 mkdir file2
   3 cd file
   4 cd file1
   5 cd ..
   6
      ls
   7 cd home/
   8 cd home
   9 cd /home
  10
      ls
  11
      history
[root@ip-172-31-40-137 home]#
```

```
Iroot8ip-172-31-40-137 home]    printeny
XDG SESSION. ID=1
HOSTIANE=ip-172-31-40-137.ap-south-1.compute.internal
SHELL=/hin/hash
TEEM=xtorm
HISTSIZE=1000
USEB=root
LSC COLORS=ro=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:or=40;31:01:mi=01;05:37;41:su=37;41:sq=30;43:ca=30;41:tw=30;42:ow=3
4;42:st=37;44:ex=01;32:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.tz=01;31:*.
```

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```
root@ip-172-31-40-137 File1]# zip mydemo.zip info1.txt info2.txt
  adding: infol.txt (stored 0%) adding: info2.txt (deflated 7%)
 [root@ip-172-31-40-137 File1]# ls
infol.txt info2.txt mydemo.zip
[root@ip-172-31-40-137 File1] # rm info1.txt
rm: remove regular file 'infol.txt'? y [root@ip-172-31-40-137 File1] # rm info2.txt
rm: remove regular file 'info2.txt'? y [root@ip-172-31-40-137 File1]# ls
[root@ip-172-31-40-137 File1] # unzip mydemo.zip
Archive: mydemo.zip
 inflating: info2.txt
[root@ip-172-31-40-137 File1]# ls
info1.txt info2.txt mydemo.zip
[root@ip-172-31-40-137 File1]# cat info
cat: info: No such file or directory [root@ip-172-31-40-137 File1]# cat infol.txt
Welcome to Capgemini
Wishing you Happy Diwali [root@ip-172-31-40-137 File1]# cat info2.txt
happy Diwali From our Team
Win Work
[root@ip-172-31-40-137 File1]#
```

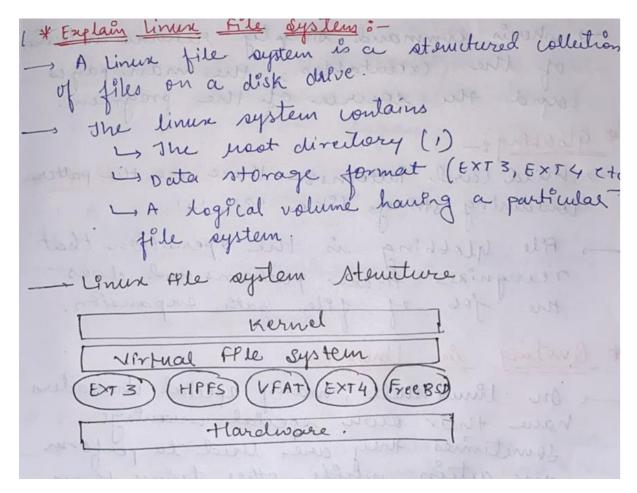
# THEORY QUESTIONS-

Q. What is the diff between log-in and non log in shell.

Ans. It is an important layer of linux architecture .

- . shell is an interface which takes I/P from users and sends instructions to the kernel.
- . Also takes the o/p from kernel qand send the result back to output shell.
- Q. What happens when you start a login shell which files are read and used and why?

  Ans. It first read and execute command from the file/etc/profice, it looks for ~/. Bash- profile.
- Q. Explain absolute and Relative Paths.
- Ans. Absolute path:- It is defined as specifying the location of a file or directory from the root directory. (/)
- . Absolute path is complete path from start of actual file system from directory.
- . Relative Path :- It is defined as a path related to the present working directory .It starts at your current directory and new starts with a/.



to difference among whereis, locate and find rearch to nanspulate ples. - Locate is used to scan the whole system quickly for something you wight use the when you have no Pdea where some - whereis command simply returns the location of the executables, the man pages and the source of the program. \* Globbing 8 (1) probably took with -> build courd Patterns &- these were the pattern Loutaining strings like '?', '\*'. - File Globbing is the operation that recognize these parterns and does the job of file path expansion.

In times shell, many special theoreaders have their own special meanings.

Sometimes they are used to perform our action while other times they are just used as characters. So the duoting mechanism performs this less it make us use them in whatever way we want to.

metacharacters: - \$, >, >>, <, <<, \*, 3 etc Eg: - \$ name = Hello \$ eilro 'Aname' OP- grame \$eilio " \$name" dond spet wolf is 19 of P Hello at says and the says is automatically when you log in and out \* shell Loufig weathon file :mey Initialize and configure a shell operation upon logient. \* Shell Variables 8is available only so to the woment shell. Systan & - variable name = variable value Eg:- computer-name = "mercury" Value shell variable

+ How to create your own variable of - To create a variable choose a lower case name for the variable and give it a value using an equal (=) sign

How to start a new bash shell s.

() Go to Run ( pnew windows + R).

() Type and to open command prompt.

() Type and to open command prompt.

() Now type bash

() This will-lake you to the bash prompt.

() This will-lake you to the bash prompt.

() I have type bash

() I have bash prompt.

() Type and global shell varbable in tinux.

Lord and global shell varbable in tinux.

Lord and global shell varbable in the function.

Why we need to export the varbable of the process es.