**Move files from one folder to the respective folders.**

E.g current folder have files abc.txt, def.txt, ghi.txt, jkl.txt

You have to move these files to the folder like abe.txt => abc/ , def.txt => def/...

Expected outcome -

abc/abc.txt

def/def.txt

ghi/ghi.txt

jkl/jkl.txt

a) Create files in current directory or any temporary directory - abc.txt, def.txt, ghi.txt, jkl.txt

b) Print list of files to move.

c) Segregate basename and extension of a file.

d) Create folder using basename.

e) Move file to newly created folder.

f) Iterate above steps for all files.

**Append current date to all log files name which has extension .log.1 from a folder**

E.g original file - access.log.1

New updated file name - access-20102019.log

a) Create files with name abc.log.1, def.log.1 , ghi.log.1, jkl.log.1, mno.log.1

b) Print list of files to rename.

c) Segregate basename and extension of a file

d) Print Date Command to show in ddmmyy

e) Append Date to the log file name

f) Iterate above steps for all files which has extension .log.1

**Archive the files from /var/log folder which have modified 7 days ago and move it**

**to your backup folder**

a) Identify files which have modified time greater than 7 days

b) Move these files to the backup folder

**Print last 4 frequently access urls count in sorted order from**

**/var/log/httpd/access.log**

a) View /var/log/httpd/access.log

b) Print field which has urls data.

c) Sort extracted urls and count it

d) Print 4 unique urls

Expect sample output -

3458 /index.html

300 /api/swagger-ui.html

100 /favi.ico

20 /robots.txt

**Print list of last 4 frequently access unique urls at particular hours from**

**/var/log/httpd/access.log**

a) View access.log without opening it using editor.

b) Print urls which has given timestamp.

c) Sort extracted urls and count it

d) Print 4 unique urls

Expect sample output -

3458 /index.html

300 /api/swagger-ui.html

100 /favi.ico

20 /robots.txt

**Print list of web response code count in the unique sorted order at specific hours**

a) View access.log without opening it using editor.

b) Print web response code field which has given timestamp

c) Sort extracted response code and count it

d) Print 4 unique response code count

Expected sample output -

1000 200

100 304

**Print list of last 10 unique sorted client IP from /var/log/httpd/access.log**

a) View access.log without opening it using editor.

b) Print client ip field from access log

c) Sort extracted client IP and count it

d) Print 4 unique client IPs

Expect sample output -

3635 107.181.177.135

423 27.62.203.44

AS 157.44.195.138

4 157.39.1§8.225

**Check if a folder exists or not. If it’s not present, create it**

a) Test if particular folder exists in current directory or not

b) If its doesn’t exists then create it else print "folder already exists..”

**Execute command “hello” and “Is” and check its execution status and**

**print whether command executed successful or not.**

a) Execute “hello” command at command prompt

b) Check execution status of “hello” command

c) Execute “Is” command at command prompt

d) Check execution status of “Is” command

**Set environment usersecret="dH34xJaa23” if its already not set**

a) Check whether environment variable usersecret assigned any value or not

b) Print error if usersecret already set

c) Set environment variable usersecret to given value.

**Find a word “systemd” from all log files in the folder /var/log and print**

**number of occurrence more than 0 against each file.**

a) Use linux command to search word and print occurrence

**Create process list table displays process id, parent process id,**

**command name, % of memory consumption, % of cpu utilization**

PID PPID CMD %MEM %CPU

760 1 /ust/bin/dockerd -H unix:// 3.5 0.0

776 1 /usr/bin/containerd 0.7 0.1

7266 757 sshd: reot@pts/0 0.6 0.0

759 1 /ust/sbin/rsyslogd -n 0.5 0.0

347 1 /ustr/lib/systemd/systemd-jo 0.3 0.0

484 1 /usr/sbin/NetworkManager 0.3 0.0

1 0 /usr/lib/systemd/systemd 0.2 0.0

7268 7266 -bash 0.2 0.0

758 1 /usr/bin/python -Es /usr/sb 0.1 0.0

**Data analysis**

Id Employee Name Job Title Base Pay Overtime Pay Other Pay Total Pay TotalPayBenefits

1 NATHANIEL GM 167411 0 400184 567595 567595

2 GARY CAPTAIN 155966 245131 137811 538909 538909

3 ALBERT CAPTAIN 212739 106088 16452 335279 335279

4 CHRISTOPHER MECHANIC 77916 56120 198306 332343 32343

5 PATRICK DEPUTY CHIEF 134401 9737 182234 326373 326373

6 DAVID ASST DEPUTY 118602 8601 189082 316285 316285

7 ALSON BATTALION CHIEF 92492 89062 134426 315981 315981

8 DAVID DEPUTY DIRECTOR 256576 0 51322 307899 307899

10 JOANNE CHIEF 285262 0 17115 302377 302377

12 PATRICIA CAPTAIN 99722 87082 110804 297608 297608

13 EDWARD EXECUTIVE 294580 0 Oo 294580 294580

i) Print EmployeeName and TotalPay who has BasePay greater than 10000

a) Read data file ‘data.csv’ from command line and extract rows which have BasePay > 10000

b) Print only EmployeeName and TotalPay

ii) What is the aggregate TotalPay of employees whose jobtitle is ‘CAPTAIN’

a) Read data file ‘data.csv' from command line and extract rows which have ‘CAPTAIN’ in the column ‘jobtitle’

b) Extract TotalPay and calculate sum. Print the result on terminal.

iii) Print JobTitle and Overtimepay who has Overtimepay is between 7000 and 10000

a) Read data file ‘data.csv’ from command line and extract jobtitle and overtimepay for column value range

between 7000-10000

b) Print the result on terminal.

iv) Print average BasePay

a)Read data file ‘data.csv’ from command line and extract BasePay values and calculate its average

b)Print the result on terminal.

**Find the difference between original file and the updated file. Apply changes to the original file.**

a) Create two directories as ‘original’ and “updated”

b) Copy given file ‘original-file.sh’ to the folder “original” and “updated-file.sh” to the

folder “updated”

c) Find the difference between these directories using linux command

d) Make copy of folder “original” to some other directory as “original-backup” and

apply changes to ‘original-file.sh’ file

e) Verify that both folders “updated” and “original-backup” have no difference.