**DAY 3 LINUX COMMANDS ASSIGNMENT**

**Q2. MOVE FILES FROM ONE FOLDER TO THE RESPECTIVE FOLDERS.**

**EXPECTED OUTCOME abc/abc.txt**

**Ans:** #! /bin/bash

for file in $( ls \*.txt)

do

baseName=$( echo $file | awk -F. '{ print $1 }')

echo $file,$baseName

if [ -d $baseName ]

then

rm -r $baseName

fi

mkdir $baseName

cp $file $baseName

Done

**Q3. Append current date to all log files which has extension .log.1 from folder**

**Ans:**

#! /bin/bash

for file in $( ls \*.log.1)

do

baseName=$( echo $file | awk -F. '{ print $1 }')

echo $file,$baseName, $date

current\_time=$(date "+%d.%m.%y")

echo "Current Time : $current\_time"

if [ -d $baseName ]

then

rm -r $baseName

fi

mkdir $baseName

cp $file $baseName

done

**Q4. Archive the files from /var/log folder which have modified 7 days ago and move to your backup folder’**

**Ans:**

Find -mtime7

Mv file.txt backup

**Q5. Print last 4 frequently urls count in sorted order from /var/log/httpd/access.log**

**Ans:** cat access.log | grep http | sort | uniq -c | head -4

**Q6. Print last 4 frequently urls at particular hours /var/log/httpd/access.log**

**Ans:**

find . -type f | grep http | xargs ls -l --time-style="+%d-%m-%Y" | sort | uniq -c | head -4

**Q7. Print list of web response code count in the unique sorted order at specific hours.**

**Ans:**awk '{ print $3 } ' access.log | sort | uniq -c

$3 for third column containing web response codes.

**Q8. Print list of last 10 unique sorted ip from /var/log/httpd/access.log**

**Ans:**grep -Eo '([0-9]{1,3}\.){3}[0-9]{1,3}' access.log | sort | uniq -c | tail -10

**Q9. Check if folder exists or not . If not present, create it.**

**Ans:**

#! /bin/bash

DIR="/c/Users/Vijay/Desktop/minibootcamp/"

if [[ -d "$DIR" ]]

then

echo " $DIR exists "

else

echo " $DIR doesn't exist "

fi

**Q10. Execute command “hello” and “ls” and check execution status**

$ hello

$ ls

$? to check the command execution status.

**Q11. Set environment usersecret=”dH34xJaa23” if already not set.**

**Ans:**

Nano :bash\_profile

Export USER = “ABC”

Export PASSWORD = ”XYZ”

Ctrl + y #to confirm

$source .bash\_profile #to make effect on the changes

**Q12. Create process list table displays provcess id. Parent process id , command name, % of memory consumption, % of cpu utilization.**

**Ans:**

Ps -eo pid,ppid,cmd,%mem,%cpu

**Q13. Data analysis / manipulation (Awk)**

**Operations performed on “data.csv” file.**

**Ans:**

Cat data.csv | grep -i captain | awk ‘{print $1,$2,$3,$7}’ # to print data of column of 1,2,3 and 7 Containing pattern CAPTAIN.

Cat data.csv | grep -I captain | awk ‘{sum+= $7} END {print sum}’ # to calculate sum of column 7 containg pattern CAPTAIN.

Cat data.csv | awk ‘{ if ($3 > 0) {print $0}}’ #print data from all columns having data greater than zero.

Cat data.csv | awk “{if ($7>400000) {print $7}}’ #print total pay greater than 400000

**Q14.Find the difference between original file and and the updated file.**

**Apply changes to original file.**

Mkdir original -> nano original.sh

Mkdir updated ->nano updated.sh

Diff original updated # to find diference between original and updated file

Cp original original-backup #to copy folder original to folder original-backup

Diff updated original-backup #to verify difference between files