# 1. Move File From one folder to the respective folder.

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ touch abc.txt def.txt ghi.txt jkl.txt

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

abc.txt def.txt ghi.txt jkl.txt

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ basename -a -s .txt \*

abc

def

ghi

jkl

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mkdir abc def ghi jkl

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

abc/ abc.txt def/ def.txt ghi/ ghi.txt jkl/ jkl.txt

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv abc.txt abc

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv def.txt def

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv ghi.txt ghi

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv jkl.txt jkl

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

abc/ def/ ghi/ jkl/

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls def

def.txt

# 2. Append current date to all log file name which has extension .log.1 from a folder.

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ touch abc.log.1 def.log.1 ghi.log.1 jkl.log.1 mno.log.1

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

abc.log.1 def.log.1 ghi.log.1 jkl.log.1 mno.log.1

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ basename -a -s .log.1 \*

abc

def

ghi

jkl

mno

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ date

Sun Jan 15 08:55:36 IST 2023

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ date +'%d%m%y'

150123

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ fdate=$(date +'%d%m%y')

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv abc.log.1 abc-$fdate.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv def.log.1 def-$fdate.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv ghi.log.1 ghi-$fdate.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv jkl.log.1 jkl-$fdate.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mv mno.log.1 mno-$fdate.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

abc-150123.log def-150123.log ghi-150123.log jkl-150123.log mno-150123.log

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

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cat access.log | awk '{print $7}' | sort -n | uniq -c | sort -nr | head -4

199 /vendor.js

199 /scripts.js

199 /runtime.js

199 /favicon.ico

# 4. Print list of last 4 frequently access unique urls at particular hours from /var/log/httpd/access.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ grep "30/Sep/2019:05:35" access.log | awk '{print $7}' | uniq -c | tail -4

1 /main.js

1 /vendor.js

1 /assets/XMLID\_1201\_.svg

1 /favicon.ico

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

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ grep "12:16" access.log | awk '{print $9}' | sort -n | uniq -c | sort -nr

32 200

# 6. Print list of 10 unique sorted client IP from /var/log/httpd/access. Log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ awk '{ print $1}' access.log | sort | uniq -c | sort -nr | head -n 10

383 10.56.2.2

345 10.56.19.3

323 10.56.21.2

285 10.56.6.4

283 10.56.1.3

261 10.56.0.3

251 10.56.22.3

242 10.56.4.2

214 10.56.3.4

213 10.56.10.2

# 7. Check if a folder exist or not. If it's not present create it

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ [ ! -d "Myfolder" ] && echo "Myfolder does not exists."

Myfolder does not exists.

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mkdir Myfolder

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

Myfolder/ abc-150123.log access.log def-150123.log ghi-150123.log jkl-150123.log mno-150123.log

# 8. Execute command "hello" and "ls" and check it's execution status and print whether command executed successful or not?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ hello

bash: hello: command not found

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ echo $?

127

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ls

Myfolder/ abc-150123.log access.log def-150123.log ghi-150123.log jkl-150123.log mno-150123.log

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ echo $?

0

# 9. Set environment usersecret ="dH34xJaa23" if already not set?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ if [ -z ${usersecret+x} ]; then echo "usersecret is not set"; else echo "variable is set to '$usersecret'"; fi

usersecret is not set

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ export usersecret="dH34xJaa23"

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ if [ -z ${usersecret+x} ]; then echo "usersecret is not set"; else echo "variable is set to '$usersecret'"; fi

variable is set to 'dH34xJaa23'

# 10. Create process list table displays process Id, paren process Id, command name, % of memory consumption, % of cpu utilization

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ ps xao pid,ppid,comm,%mem,%cpu

PID PPID PGID WINPID TTY UID STIME COMMAND

626 1 626 20348 ? 197609 08:26:27 /usr/bin/mintty

627 626 627 18084 pty0 197609 08:26:28 /usr/bin/bash

1248 627 1248 6696 pty0 197609 10:48:11 /usr/bin/ps

# 11. Data analysis / manipulation (Awk)?

## i)Print employee name and totalpay who has basepay greater than 10000?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ awk '$2 > 10000' data.csv | awk '{print $2," ",$7}'

EmployeeName TotalPay

NATHANIEL 567595

GARY 538909

ALBERT 335279

CHRISTOPHER 332343

PATRICK 326373

DAVID 316285

ALSON 315981

DAVID 307899

JOANNE 302377

PATRICIA 297608

EDWARD 294580

## ii) What is the aggregate totalpay of employee whose jobTitle is "CAPTAIN"?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cat data.csv | awk '{if ( $3 == "CAPTAIN" ) print $7}'| awk '{ SUM\_SALARY = SUM\_SALARY + $1 } END { print SUM\_SALARY }'

1171796

## iii) Print jobtitle and overtimepay who has overtimepay between 7000 and 10000?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cat data.csv | awk '{if ( $5 > 7000 && $5 < 10000 ) print $3}'

DEPUTYCHIEF

ASSTDEPUTY

## iv) Print average basepay?

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cat data.csv | awk '{ sum += $4 } END { print(sum/NR-1)}'

157971

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

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ mkdir original updated

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cd original

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/original

$ echo "abc" > original-file.sh

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/original

$ cat original-file.sh

abc

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/original

$ cd ..

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cd updated

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/updated

$ echo "def" > updated-file.sh

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/updated

$ cat updated-file.sh

def

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp/updated

$ cd ..

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ diff -u original/original-file.sh updated/updated-file.sh

--- original/original-file.sh 2023-01-15 11:47:43.503329400 +0530

+++ updated/updated-file.sh 2023-01-15 11:49:23.336585100 +0530

@@ -1 +1 @@

-abc

+def

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cp original/original-file.sh original/original-backup.sh

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ comm -1 -3 original/original-file.sh updated/updated-file.sh > original/original-backup.sh

ASUS@LAPTOP-3B8MNDL8 MINGW64 /d/Work/Bridgelabz/Pratice problem/1/Temp

$ cat original/original-backup.sh

def