Shell commands 1.

1. check the current working directory command , and get list with including hidden file

as well filesize of each of file and folder.

Pwd | ls -a

2. then create the 2 folder name with intern-2020 & rapidops-2020,

mkdir intern-2020 rapidops-2020

3. then create 2 file within intern-2020 folder, filename is dev.txt helloworld.txt,

bineet.kushwah@RSPL-193:~$ cd intern-2020/

bineet.kushwah@RSPL-193:~/intern-2020$ touch dev.txt helloworld.txt

bineet.kushwah@RSPL-193:~/intern-2020$ ls

dev.txt helloworld.txt

bineet.kushwah@RSPL-193:~/intern-2020$

4. open the dev.txt file and write down here about any content, and in helloworld.txt file

write the “helloworld” with using echo command,

cat >dev.txt

Wass upp yao

echo "helloworld " >helloworld.txt

5. Now copy dev.txt and helloworld.txt into rapidops-2020 folder,

cp -v dev.txt helloworld.txt /home/ad.rapidops.com/bineet.kushwah/rapidops-2020

Use -R for recursive also fro hiddden files

6. Now go to the rapidops-2020 folder and rename that 2(dev.txt, helloworld.txt) files.

mv helloworld.txt hello.txt

Mv dev.txt new.txt

7. In the same directory path give the read only permission to dev.txt for file’s owner and

give read-write-execute for owner & read-write permission for group to helloworld.txt.

sudo chmod 400 dev.txt

sudo chmod 760 helloworld.txt

8. Now create archive file within same directory and shift into intern-2020 directory.

tar -cvf tarnew.tar dev.txt

cp tarnew.tar ../intern-2020/

9.Now copy that archive file within same directory location and remove the older archive

file.

cp tarnew.tar new.tar

rm tarnew.tar

10. Using the command find out the dev.txt file.

find /home -iname dev.txt

11. Check the cpu, memory usage with using CLI.

Du -h /home

Top -n 10

12. Check the disk usage and free disk space with using CLI.

Du -h /home

Df -h /home

13. Check the all system process and filter out any of one process service.

ps -e |grep firefox

15. Check your network interface information with using CLI.

ipconfig/netstat

`

Shellscript 2.

**1. Write a shell script that adds an extension “.new” to all the files in the directory.**

for x in \*

do

mv -f "$x" "$x%.new"

done

**2. Delete file which has special characters. “ -“, “—“, “\*”, “$”**

for i in \*

do

while ISF= read ch

do

case $ch in

? )

echo "File $i deleted!"

rm -rf $i;;

\* )

;;

esac

done < $i

done

**3. Write a shell script that take two input numbers from user at run-time and display arithmetic**

**operation on that numbers, find out max, & min number from them, find weather that numbers**

**negative or positive.**

read -p "Enter Num1: " num1

read -p "Enter Num2: " num2

echo "Arithmetic Operations:"

echo -e "Add\c"

echo "$num1 + $num2 " | bc -l

echo -e "Sub\c"

echo "$num1 - $num2" | bc -l

echo -e "Mul\c"

echo "$num1 \* $num2" | bc -l

echo -e "Div\c"

echo "scale=2 ;$num1 / $num2" | bc -l

echo -e "Modulo\c"

echo " $num1 % $num2" | bc -l

echo "Relational Operations:"

[[ $num1 -gt $num2 ]] && echo -e "Max is $num1 \nMin is $num2" || echo -e "Max is $num2 \nMin is $num1"

[[ $num1 -ge 0 ]] && echo "$num1 is positive" || echo "$num1 is Negative"

[[ $num2 -ge 0 ]] && echo "$num2 is positive" || echo "$num2 is Negative"

**4. Write a shell script that take one input number from user and print 1 to n number using three**

**loops (For, while, until). (N = entered number)**

read -p "Enter num:" n

echo "For"

for(( i = 1 ; i <= $n ; i++ ))

do

echo -e $i "\c"

done

echo

echo "While"

a=1

while [ $a -le $n ]

do

echo -e "$a \c"

(( ++a ))

done

echo

echo "Until"

b=1

until [ $b -ge $n ]

do

echo -e "$b **\c"**

**5. Write a shell script to display the last updated file of the newest file in a directory.**

echo -e "Last modified file:\c"

ls -t | head -n 1

**6. Write a shell script to get the total count of the word “Linux” in all the “.txt” files and also across files present in sub-directories.**

echo -e "Total lines: \c"

grep -iR 'Linux' --include=\*.txt .. | wc -l

**7. Write a shell script that copy all the directories, sub-directories and files from one location to**

**another specific location.**

cp -r \* ../Desktop/ ../hell/

**8. Display specific number of lines as follow:**

**(i). Display first and last 10 lines of file contains**

**(ii). Display line no. 3 to 8 from file contains.**

**(iii). Display 7 lines and start from second last line in reverse manner.**

#!/bin/bash

echo "(i)"

echo -e "First 10 lines:\n"

head -n 10 file3.txt

echo -e "\n Last 10 lines are:\n"

tail -n 10 file3.txt

echo -e "\nlines from 3 to 8 are:"

awk '{if(NR>=3 && NR<=9) print $0}'file3.txt

echo -e "\n 7 lines starting from the bottom in reverse are:"

tac file3.txt | sed -n 2,8p

**10. Task to find all files from folder where file contains string 'abc'**

grep -r "abc" TestFile/

Exit

**9. Perform following task:**

**(i). Add two new users and two groups**

**(ii). Login as one user and then create new file**

**(iii). Send created file from one user to another user**

**(iv). Login as second user and copy that file from user2 to user1(in same system)**

useradd user1 -m -s /bin/bash

useradd user2 -m -s /bin/bash

groupadd rapidnew

groupadd internnew