**EX.NO:1 INTRODUCTION TO LINUX COMMANDS**

**AIM:**

To introduce about basic Linux commands and Shell Script.

**COMMANDS:**

**1)mkdir:**

Description: create name is dirName subdirectory.

**mkdir ravee**

**2)cd:**

Syntax: cd [directory]

Description: The current working directory to the directory specified by "directory".

Example: enter the directory / usr / bin /: cd / usr / bin

**cd ravee**

**3)cat:**

Syntax: cat [options] [file-list]

Description: standard output connection, display a list of files in the file-list file

**cat>31**

**cat>88**

**cat>00**

**4)more:**

Syntax: more [options] [file-list]

Description: standard output is connected to the paging file in the file list file-list

**more 31**

**more 88**

**more 00**

**5)head:**

Syntax: head [options] [file-list]

Description: Display the initial part of the file in the list of files in the file-list, the default display 10 lines;

**head 00**

**6)tail:**

Description: Displays the tail of the list of files in the file-list file; default display 10 lines;

**tail 00**

**7)cp:**

Syntax: cp [options] file1 file2

Description: Copy the file file1 to file2. Common options:-r copy the entire directory

**cp 88 98**

**8)pwd:**

Syntax: pwd

Description: Displays the absolute path of the current directory.

**pwd**

**9)ls –lt:**

ls -lt Sorting the Formatted listing by time modification

**ls –lt**

**10)ls –al:**

Formatted listing with hidden files

**ls –al**

**11)mv:**

Syntax: mv [options] source ... directory

Description: Rename the file, or the number of files to another directory.

**mv 88 98**

**12)find:**

**find 31**

**13)history:**

Description:shows history

**history**

**14)ls \*:**

Description:List all names in the current working directory is s at the beginning of the file

**ls \***

**15)sort:**

Ordering the contents of a file.

**sort**

**16)clear:**

Clears the screen.

**clear**

**17)wc:**

**wc 31**

**18)date:**

Show the current date and time

**date**

**19)uptime:**

Show current uptime

**uptime**

**20)cal:**

Show this month's calender

**cal**

**21)echo:**

Syntax: echo $ variable

Description: Displays the value of the variable variable.

**$var="I luv yu"**

**$echo $var**

**22)rm:**

Syntax: rm [options] name ...

Description: delete files and directories. Commonly used options:-f to force delete files

**rm 98**

**23)exit:**

Exits from file.

**exit**

**SHELL SCRIPTS:**

**To create shell script:**nano 2.sh

**Chmod:**chmod 700 2.sh

**To displayoutput of the shell:**./2.sh

**1)print statement:**

#!/bin/bash

G=150

if [ "$G" -lt "100" ]

then

echo "G is less than 100"

else

echo "G is greater than 100"

fi

**2)** **sum of numbers:**

#!/bin/bash

echo -n "Enter the first number: "; read x

echo -n "Enter the second number: "; read y

add=$(($x + $y))

sub=$(($x - $y))

mul=$(($x \* $y))

div=$(($x / $y))

mod=$(($x % $y))

echo "Sum: $add"

echo "Difference: $sub"

echo "Product: $mul"

echo "Quotient: $div"

echo "Remainder: $mod"

**3) if condition:**

#!/bin/bash

LIMIT=19

echo

echo "Printing Numbers 1 through 20 (but not 3 and 11)"

a=0

while [ $a -le "$LIMIT" ]; do

a=$(($a+1))

if [ "$a" -eq 3 ] || [ "$a" -eq 11 ]

then

continue

fi

echo "$a \n"

done

**4) loop:**

#!/bin/bash

sum=0

for num in 1 2 3 4 5

do

sum=$(($sum+$num))

done

echo $sum

**5)array:**

#!/bin/bash

echo "enter the array elements"

read n

sum=0

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

sum=$(($sum+$i))

done

echo "the sum of $n is $sum"

**RESULT:**

Thus the basic linux commands and shell scripts is executed successfully.

**OUTPUT:**

1) student@oslab-HP-280-G2-MT-Legacy:~$ mkdir ravee

2)student@oslab-HP-280-G2-MT-Legacy:~$ cd ravee

3) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ cat>31

hello

everyone

^Z

[1]+ Stopped cat > 31

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ cat>88

hii

^Z

[2]+ Stopped cat > 88

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ cat>98

hehe

^Z

[3]+ Stopped cat > 98

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ cat>00

a

s

d

e

eg

rg

4y

45h

5

y5

5y

tj

55

u5

^Z

[4]+ Stopped cat > 00

4)student@oslab-HP-280-G2-MT-Legacy:~/lin$ more 31

hello

everyone

student@oslab-HP-280-G2-MT-Legacy:~/lin$ more 88

hii

student@oslab-HP-280-G2-MT-Legacy:~/lin$ more 98

hehe

5) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ head 00

a

s

d

e

eg

rg

4y

45h

5

Y5

6) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ tail 00

rg

4y

45h

5

y5

5y

tj

55

u5

7) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ cp 88 98

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ more 98

hii

8) /home/student/ravee

9) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ ls -al

total 16

drwxrwxr-x 2 student student 4096 Dec 18 14:28 .

drwxr-xr-x 31 student student 4096 Dec 18 14:18 ..

-rw-rw-r-- 1 student student 39 Dec 18 14:28 00

-rw-rw-r-- 1 student student 15 Dec 18 14:18 31

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ ls -lt

10)total 8

-rw-rw-r-- 1 student student 39 Dec 18 14:28 00

-rw-rw-r-- 1 student student 15 Dec 18 14:18 31

11) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ mv 88 98

student@oslab-HP-280-G2-MT-Legacy:~/ravee$ more 98

hii

12) find: student@oslab-HP-280-G2-MT-Legacy:~/ravee$ find 31

31

13) 1 mysql -u root -p

2 create table bank;

3 createtable stud(int roll,varchar(20) name,class varchar(20);

4 mysql -u root -p

5 root

6 mysql -u root -p

7 root

8 mysql -u root -p

9 root

10 mysql -u root -p

14) bookshop cust

15) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ sort 31

everyone

hello

16) student@oslab-HP-280-G2-MT-Legacy:~/ravee$ clear

17) 2 3 23 31

18) Mon Dec 18 14:37:42 IST 2017

19) 14:37:52 up 47 min, 2 users, load average: 0.00, 0.03, 0.05

20) December 2017

Su Mo Tu We Th Fr Sa

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 30

31

21)test

22) rm 98

student@oslab-HP-280-G2-MT-Legacy:~/lin$ more 98

98: No such file or directory

23)exit

**SHELL SCRIPT:**

1) G is greater than 100

2) Enter the first number: 4

Enter the second number: 8

Sum: 12

Difference: -4

Product: 32

Quotient: 0

Remainder: 4

3) Printing Numbers 1 through 20 (but not 3 and 11)

1 \n

2 \n

4 \n

5 \n

6 \n

7 \n

8 \n

9 \n

10 \n

12 \n

13 \n

14 \n

15 \n

16 \n

17 \n

18 \n

19 \n

20 \n

4) 15

5) enter the array elements

5

the sum of 5 is 10