**SYSTEM DESIGN LAB**

Chaithra K V

Roll No : 9

MCA – 4th sem

**AIM: Introduction to shell scripting (usage of various commands like echo, read, mkdir, chmod, cut, cp, rm, man, tar, useradd, usermod, cat, pwd etc.)**

**echo**

chaithra@chaithra:~$ echo Hello

Hello

**read**

chaithra@chaithra:~$ read s

chaithra

chaithra@chaithra:~$ echo hello $s

hello chaithra

chaithra@chaithra:~$ echo hello s

hello s

**cat**

chaithra@chaithra:~$ cat >firststudent

Name of first student is Anu

chaithra@chaithra:~$ cat firststudent

Name of first student is Anu

**wc**

chaithra@chaithra:~$ wc firststudent

1. 6 29 firststudent

**touch**

chaithra@chaithra:~$ touch student

**cp**

chaithra@chaithra:~$ cp firststudent student

chaithra@chaithra:~$ cat student

Name of first student is Anu

**rm**

chaithra@chaithra:~$ rm student

chaithra@chaithra:~$ cat student

cat: student: No such file or directory

**mkdir**

chaithra@chaithra:~$ mkdir Chaithra

**mv**

chaithra@chaithra:~$ mv firststudent Chaithra

**ls**

chaithra@chaithra:~$ ls chaithra

firststudent

chaithra@chaithra:~$ ls

chaithra Desktop dl Documents Downloads Music Pictures prg prg1 Public Templates Videos

**cd**

chaithra@chaithra:~$ cd Chaithra

**pwd**

chaithra@chaithra:~/chaithra$ pwd

/home/chaithra/chaithra

chaithra@chaithra:~/chaithra$ cd ..

chaithra@chaithra:~$ pwd

/home/Chaithra

chaithra@chaithra:~$ cat >file

hello

**chmod**

chaithra@chaithra:~$ chmod 777 file

**cut**

chaithra@chaithra:~$ cut -c 2-4 file

ell

**man**

chaithra@chaithra:~$ man -f printf

printf (1) - format and print data

printf (3) - formatted output conversion

**tar**

chaithra@chaithra:~$ tar -cf prg.tar /home/chaithra

tar: Removing leading `/' from member names

tar: /home/chaithra/prg.tar: file is the archive; not dumped

**useradd**

chaithra@chaithra:~$ sudo useradd new\_user

chaithra@chaithra:~$ cat /etc/passwd | grep new\_user

new\_user:x:1001:1001::/home/new\_user:/bin/sh

**usermod**

chaithra@chaithra:~$ sudo usermod -c "This is a new user" new\_user

chaithra@chaithra:~$ sudo cat /etc/passwd | grep new\_user

new\_user:x:1001:1001:This is a new user:/home/new\_user:/bin/sh

**date**

chaithra@chaithra:~$ date

Saturday 17 April 2021 06:54:01 AM IST

**diff**

chaithra@chaithra:~$ cat >a

kollam

Trivandrum

Pathanamthitta

chaithra@chaithra:~$ cat >b

kollam

Idukki

Trivandrum

chaithra@chaithra:~$ diff a b

1a2

> Idukki

3d3

< Pathanamthitta

**grep**

chaithra@chaithra:~$ cat >example

hello mca

Hello

hello all

chaithra@chaithra:~$ grep -c "hello" example

2

**clear**

chaithra@chaithra:~$ clear