

Finolex Academy of Management and Technology, Ratnagiri

Department of Information Technology

Subject:	Unix Lab(SE ITL402)							
Class:	SE IT / Semester – IV (CBCGS) / Academic year: 2017-18							
Name of Student:	Kazi Jawwad A Rahim							
Roll No:	28	3	Date of performance (DOP) :					
Assignment/Experiment No:		02	Date of checking (DOC):					
Title: To Study and implement UNIX general purpose commands								
Marks:			Teacher's Signature:					

- **1. Aim**: To study and implement UNIX general purpose utility command.
- 2. Prerequisites:

C Programming Language and Operating System

- 3. Hardware Requirements:
 - PC with minimum 2GB RAM
- 4. Software Requirements:
 - Fedora installed.
- 5. Learning Objectives:

To introduce basic UNIX general purpose commands.

- 6. Course Objectives Applicable: LO1
- 7. Program Outcomes Applicable: PO1
- 8. Program Education Objectives Applicable: PEO1

9. Theory:

List of commands:

1.date

Description: It shows current date and time.

Syntax: date

Output:

[students@localhost ~]\$ date

Thu Jan 11 11:40:17 IST 2018

2·calender

Description: Shows calender.

Syntax: cal

OUTPUT:

[students@localhost ~]\$ cal

January 2018

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

3·calender

Description: Shows calender.

Syntax: cal moth_number year

OUTPUT:

[students@localhost ~]\$ cal 9 1998

September 1998

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

4.echo Description: Prints String Syntax:echo "string" **OUTPUT:** [students@localhost ~]\$ echo "Jawwad" Jawwad 5·calculator Description: Single math operation Syntax:bc **OUTPUT:** [students@localhost ~]\$ bc bc 1.06.95 10+2 12 4*5 20 6·calculator Description: Multiple math operations Syntax:bc OUTPUT: [students@localhost ~]\$ bc bc 1.06.95 4*5;2+3;9/3 20 5 3 $7 \cdot who$ Description: Show who is loged in syntax: who **OUTPUT:** [students@localhost ~]\$ who students tty2 2018-01-11 11:34 (:0) 8·whoami

Description: Shows who logged in

Syntax: whoami

OUTPUT:

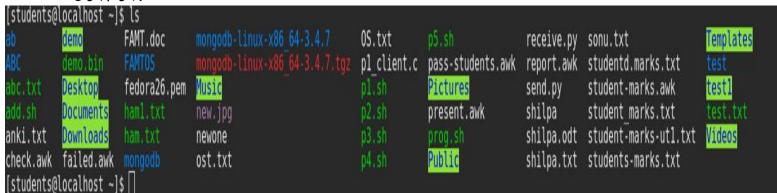
[students@localhost ~]\$ whoami

students

9·1s

Description: It shows directory

Syntax: Is OUTPUT:

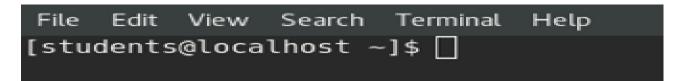


10·clear

Description: It clears the screen

Syntax: clear

OTPUT:



11. make directory

Description: Creates new directory

Syntax: mdir folder_name

OUTPUT:

[students@localhost ~]\$ mkdir FAMT

```
students@localhost ~]$ mkdir FAMT
students@localhost ~]$ ls
                                                                                                               student-marks-utl.txt
            esktop
                                                          newone
                                                                                           send.py
           Documents
                                                                       pass-students.awk
                                                                                          shilpa
                                                                                                               students-marks.txt
                                                          ost.txt
                                                          0S.txt
           Downloads
                                                                                           shilpa.odt
                                                                                                               Templates
                                                          pl_client.c
                                                                                           shilpa.txt
           failed.awk
                                                                       present.awk
anki.txt
                                                                                           sonu.txt
                                                                                           studentd.marks.txt
check.awk
                                                                       receive.py
                                                                                           student-marks.awk
          fedora26.pem
                                                                       report.awk
                                                                                           student marks.txt
```

[students@localhost ~]\$

12 · change directory

Description: Changes the directory

Syntax: cd foldername

OUTPUT:

[students@localhost ~]\$ cd FAMT

[students@localhost FAMT]\$

13 · create a file

Description: Creating file

Syntax:cat>filename·extension

OUTPUT:

[students@localhost ~]\$ cat>jk·doc

Hi, this is a test message.

Welcome to Unix Lab.

This file has been created at FAMT.

Nice to meet you.

Best of Luck.^Z

[2]+ Stopped cat > $jk \cdot doc$

[students@localhost ~]\$ cat jk·doc

Hi, this is a test message.

Welcome to Unix Lab.

This file has been created at FAMT.

Nice to meet you.

14. No of lines from head

Description: Shows no of lines in the file from head

Syntax: head -n filename extension

OUTPUT:

[students@localhost ~]\$ head -2 jk·doc Hi, this is a test message· Welcome to Unix Lab·

15. No of lines from tail

Description: Shows no of lines in the file from bottom

Syntax: tail -n filename extension

OUTPUT:

[students@localhost ~]\$ tail -2 jk·doc This file has been created at FAMT· Nice to meet you·

16·Move

Description: Moves the file

Syntax: mv filename foldername

OUTPUT:

[students@localhost ~]\$ mv jk·doc FAMT

[students@localhost ~]\$ cd FAMT

[students@localhost FAMT]\$ Is

jk∙doc

17. Move contents of one file to other

Description: It moves all the contents of file1 to file2

Syntax: mv file1 file2

OUTPUT:

[students@localhost FAMT]\$ mv jk·doc famt·doc

[students@localhost FAMT]\$ cat famt.doc

Hi, this is a test message.

Welcome to Unix Lab.

This file has been created at FAMT.

Nice to meet you.

18-print working directory

Description: it prints current working directory

Syntax:pwd

OUTPUT:

[students@localhost FAMT]\$ pwd /home/students/FAMT

19 · Remove folder(empty)

Description: Removes folder which is empty.

Syntax: rm foldername rmdir foldername

OUTPUT:

```
students@localhost ~]$ ls
                                                                newone
                                                                                                                            student-marks-ut1.txt
                                                                                                     send.py
                                                                ost.txt
0S.txt
             ocuments
                                                                               pass-students.awk
                                                                                                     shilpa
                                                                                                                            students-marks.txt
                                                                                                     shilpa.odt
            failed.awk
                                                                pl client.c
                                                                               present.awk
                                                                                                     shilpa.txt
anki.txt
                                                                                                     sonu.txt
                                                                               Public
check.awk
           FAMT.doc
                                                                                                     studentd.marks.txt
                                                                                                                           Videos
                                                                               receive.py
                                                                                                     student-marks.awk
demo.bin fedora26.pem ne
[students@localhost ~]$ rm
[students@localhost ~]$ ls
                                                                               report.awk
                                                                                                     student marks.txt
                           rmdir Jawwad
                                                              Music
                                                                                                                shilpa.txt
                                                                                                                                           Templates
                          fedora26.pem
                                                                                                  receive.py
report.awk
            Documents
                                                                                                                studentd.marks.txt
                                                              newone
                                                                                                                student-marks.awk
                                                                                                  send.py
anki.txt
            failed.awk
                                                              0S.txt
                                                                             pass-students.awk
                                                                                                                student marks.txt
                                                                                                                                           Videos
check.awk
                                                              p1_client.c
                                                                             Pictures
                                                                                                  shilpa
                                                                                                                student-marks-ut1.txt
           FAMT.doc
                                                                                                  shilpa.odt students-marks.txt
[students@localhost ~1$
```

20. Remove folder(non-empty)

Description: Removes folder which is non-empty.

Syntax: rm -rf foldername

OUTPUT:



21. Change Password

Description: Changes the password

Syntax:passwd

OUTPUT:

students@localhost ~]\$ passwd

Changing password for user students.

Changing password for students.

Current password:

New password:

Retype new password:

passwd: all authentication tokens updated successfully.

22.Logout

Description: Logged out from current login

Syntax: logout

23. Shutdown

Description: Shutdown the PC

Syntax: shutdown now

11. Learning Outcomes Achieved

Students will be able to identify the basic Unix general purpose commands

12. Conclusion:

Thus we have understand general purpose commands of Unix.

13. Experiment/Assignment Evaluation

SR	Parameters	Weight	Excellent	Good	Average	Poor	Not as per requirement	
		Scale Factor ->	5	4	3	2	0	
1	Technical Understanding	25						
2	Performance / Execution	25						
3	Question Answers	20						
4	Punctuality	20						
5	Presentation	10						
	Total out of 100>		∑ (Weight * Scale Factor)/5 =					
	#(to be converted as pe applicable to							

References:

- [1] Unix, concepts and applications by Sumitabha Das, McGraw-Hill
- [2] Mastering Shell Scripting, Randal. K. Michael, Second Edition, Wiley Publication

Viva Questions

• What are UNIX general purpose commands?

