EX NO: 1A	**BASICS UNIX COMMANDS**
DATE:	

AIM:

To implement the Basic unix commands.

COMMANDS:

1.1 GENERAL PURPOSE COMMANDS:

1. THE DATE COMMAND:

The **date** command can also be used with following format.

Format	Purpose	Example
+ %m	To display only month	$ date + %m
+ %h	To display month name	$ date + %h
+ %d	To display day of month	$ date + %d
+ %y	To display last two digits of the year	$ date + %y
+ %H	To display Hours	$ date + %H
+ %M	To display Minutes	$ date + %M
+ %S	To display Seconds	$ date + %S

[exam@fosslab ~]$ date
Sat Feb 14 11:48:18 IST 2015

2. THE echo COMMAND:

[exam@fosslab ~]$ echo learning unix is intresting learning
unix is intresting

3. THE Who COMMAND:

[exam@fosslab ~]$ who
exam pts/0 2015-02-14 11:48 (192.168.8.5)
exam20 pts/0 2015-02-14 11:48 (192.168.8.6)

4. THE Who am i COMMAND:

```
[exam@fosslab ~]$ who am i
exam    pts/0        2015-02-14 11:48 (192.168.8.5)
```

5. THE UNIX CALENDER:

Cal:

```
[exam@fosslab ~]$ cal 2 2015
   February 2015
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
```

6. THE Finger COMMAND:

```
[exam@fosslab ~]$ finger exam25
Login: exam                     Name:
Directory: /home/exam           Shell: /bin/bash On since
Sat Feb 14 11:48 (IST) on pts/0 from 192.168.8.5 No mail.
No Plan.
```

7. THE id COMMAND:

```
[exam@fosslab ~]$ id
uid=662(exam) gid=662(exam) groups=662(exam)
```

8. THE tty COMMAND:

```
[exam@fosslab ~]$ tty
/dev/pts/0
```

9.VIEW THE CONTENT:

```
[exam@fosslab ~]$ cat test welcome to operating
system. it is an interesting subject.
```

10. CLEARING THE SCREEN

```
[exam@fosslab student ~]$ tput clear
```

1.2 DIRECTORY COMMANDS

1.CREATE A DIRECTORY:

```
[exam@fosslab ~]$ mkdir student
[exam@fosslab ~]$ cd student
[exam@fosslab student]$
```

2 CURRENT WORKING DIRECTORY:

```
[exam@fosslab ~]$ pwd
```

/home/exam

3.REMOVING A DIRECTORY:

[exam@fosslab student]$ rmdir student
[exam@fosslab ~]$

4.LISTING THE FILES AND DIRECTORIES:

ls:

[exam@fosslab student~]$ ls
a.out data program public_html share stud25 student test test1

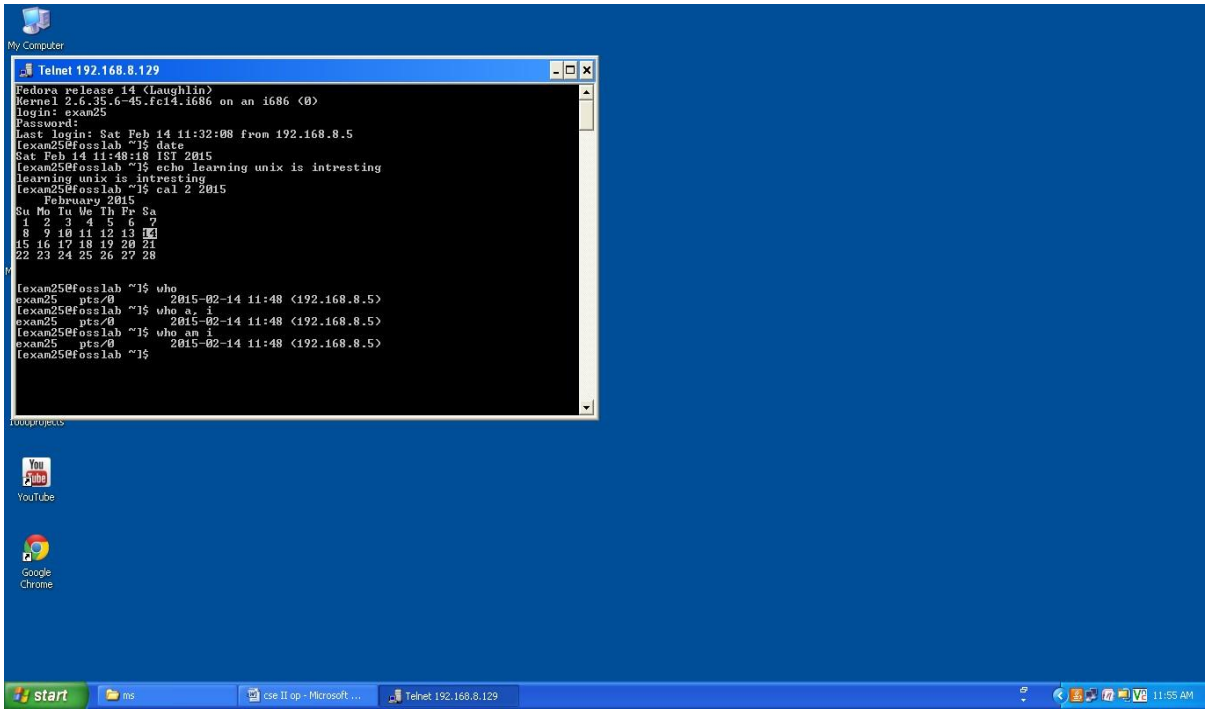
5.CHANGING THE WORKING DIRECTORY:

Cd:

[exam@fosslab ~]$ pwd
/home/exam/
[exam@fosslab ~]$ mkdir student
[exam@fosslab ~]$ cd student
[exam@fosslab student]$ pwd
/home/exam/student/

6. THE PATH

[exam@fosslab student~]$ echo $PATH
/usr/lib/qt-3.3/bin:/usr/lib/mpich2/bin:/usr/lib/ccache:/usr/local/bin:/bin:/usr
/bin:/usr/local/sbin:/usr/sbin:/sbin:/usr/lib/alliance/bin:/usr/libexec/sdcc:/op
t/ns2/bin:/opt/ns2/tcl8.4.14/unix:/opt/ns2/tk8.4.14/unix:/opt/ns2/ns-2.34/:/opt/
ns2/nam-1.14/:/home/exam25/bin



7.CHANGE THE PASSWORD:

[exam@fosslab ~]$ passwd
(current) UNIX PASSWORD: ********
New Password: ********
Re-enter Password: ********
$

1.3 FILE HANDLING COMMANDS

1. THE CAT COMMAND:

[exam@fosslab ~]$ cat>test welcome to operating
system. it is an interesting subject.

2. COPYING THE FILE: Cp:

[exam@fosslab student~]$ cat test welcome to
operating system. it is an interesting subject.
[exam@fosslab student ~]$ cat test1 the basic unix commands are cat,
pwd, mkdir, rmdir, cd, path,clear,cp,rm, mv,ls,wc.
[exam@fosslab student~]$ cp test test1 [exam@fosslab
student ~]$cat test1 welcome to operating system. it is
an interesting subject.

3. REMOVING A FILE:

Rm:

[exam@fosslab student ~]$ rm test1
[exam@fosslab student ~]$ cat test1
Cat :test1: No such file or directory

4.MOVING A FILE:

[exam@fosslab student~]$ cat >test1 the basic unix commands
are cat,pwd,clear,cp,mv,rm,mv,test..^C **mv:**
[exam@fosslab student ~]$ mv test test1 [exam@fosslab student ~]$ cat
test 1 the basic unix commands are cat, pwd, mkdir, rmdir, cd,
path,clear,cp,rm, mv,ls,wc.

5. DIRECTING OUTPUT TO A FILE:

[exam@fosslab student~]$ ls>test
[exam@fosslab student ~]$ cat test
a.out data mylist

program
public_html
share stud25
student test
test1 [exam@fosslab
~]$

6. COUNTING NUMBER OF WORDS IN A FILE:

wc:

[exam@fosslab ~]$ wc test
10 10 70 test

7. THE FILE COMMAND

[exam@fosslab ~]$ file test
test: ASCII Pascal program text
[exam@fosslab ~]$ cat test
a.out data mylist program
public_html share stud25
student
test

8. CHANGING THE FILE PERMISSION:

Chmod:

[exam@fosslab ~]$ chmod u-wx test
[exam@fosslab ~]$ cat > test
-bash: test: Permission denied

1.4 FILTER COMMANDS

1.SORTING THE CONTENTS: (sort)

[exam@fosslab ~]$ sort test1
a.out data mylist program
public_html share stud25
student test
test1

2. THE uniq COMMAND:

[exam@fosslab ~]$ cat > dept.lst
01 accounts 3977
01 accounts 3977
02 admin 1707
03 marketing 39
03 marketing 39

04 personel 77
05 production 1739
06 sales 1008^C
[exam@fosslab ~]$ uniq dept.lst
01 accounts 3977
02 admin 1707
03 marketing 39
04 personel 77
05 production 1739

3. ADDING LINE NUMBERS:

nl

[exam@fosslab ~]$ nl test1
1 a.out
2 data
3 mylist
4 program
5 public_html

4. SELECTING FIELDS FROM A LINE:

cut

[exam@fosslab ~]$ cat >std
Aswini
Bharathi
Charu
Deepa^C
[exam@fosslab ~]$ cut -c1 std
A
B
C
D

5. THE more COMMAND:

[exam@fosslab ~]$ more test1
a.out data mylist program
public_html stud25 student
test
test1

6. PASTING FILES:

[exam@fosslab ~]$ paste std
Aswini
Bharathi
Charu
Deepa

7. COMPARING FILES: cmp

[exam@fosslab ~]$ cmp test1 std test1
std differ: byte 1, line 1

8. THE mesg COMMAND: mesg

[exam@fosslab ~]$ mesg exam25
Usage: mesg [y|n]
[exam@fosslab ~]$ y
Message from exam25@fosslab.linuxpert.in on pts/0 at 12:34 ...
hiiiii ... study well for your exams hiiiii
... study well for your exams

9. THE write COMMAND:

write

[exam@fosslab ~]$ write exam25
Message from exam25@fosslab.linuxpert.in on pts/0 at 12:30 ... Hiiii
Hiiii

10. SENDING MESSAGE TO ALL THE USERS:

wall:

[exam@fosslab ~]$ wall os laboratory lab records
Broadcast message from exam25@fosslab.linuxpert.in (pts/0) (Wed Jan 21 13:21:os laboratory lab records

11. SENDING MAIL TO USERS: mail:

[exam@fosslab ~]$ mail user2
Subject: about operating systems
THE OPERATING SYSTEMS BOOk is a "practice of some materials to gain knowledge"
EOT

12.THE reply COMMAND:

reply reply
exam25
Thanks For Giving A Mail

13. NO LOGGING OUT:

[exam@fosslab ~]$ std.lst test1.lst &

[1] 4663

14. THE nohup COMMAND:

[exam@fosslab ~]$ nohup test1.lst &
[1] 4685

15. Execution of a Job With Low Priority:

nice

[exam@fosslab ~]$ nice wc -l std &
[2] 4721
[1] Exit 127 nohup test1.lst
[exam@fosslab ~]$ 4 std

16. THE at COMMAND:

[exam@fosslab ~]$ at 12.54pm
at> today at evening 4pm at>
21.30 tue next at 9.20 at> 2pm
apr3 next 3rd

17. THE sleep COMMAND:

[exam@fosslab ~]$ sleep 1
-

18. KILLING PROCESSES WITH SIGNALS kill

[exam@fosslab ~]$ kill 4921

RESULT:

Thus the basic UNIX commands were executed successfully.