|  |  |
| --- | --- |
| **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     1. **THE echo COMMAND:**   [exam@fosslab ~]$ echo learning unix is intresting learning unix is intresting     1. **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)     1. **THE Who am i COMMAND:**   [exam@fosslab ~]$ who am i  exam pts/0 2015-02-14 11:48 (192.168.8.5)        1 | |

**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

1. **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.

1. **THE id COMMAND:**

[exam@fosslab ~]$ id

uid=662(exam) gid=662(exam) groups=662(exam)

1. **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 ~]$

**.LISTING THE FILES AND DIRECTORIES:**

**4**

**ls:**

[

exam@fosslab stud

ent~]$ 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/s

tudent/

**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:/o

pt/ns2/tk8.4.14/unix:/opt/ns2/ns

-

2.34/:

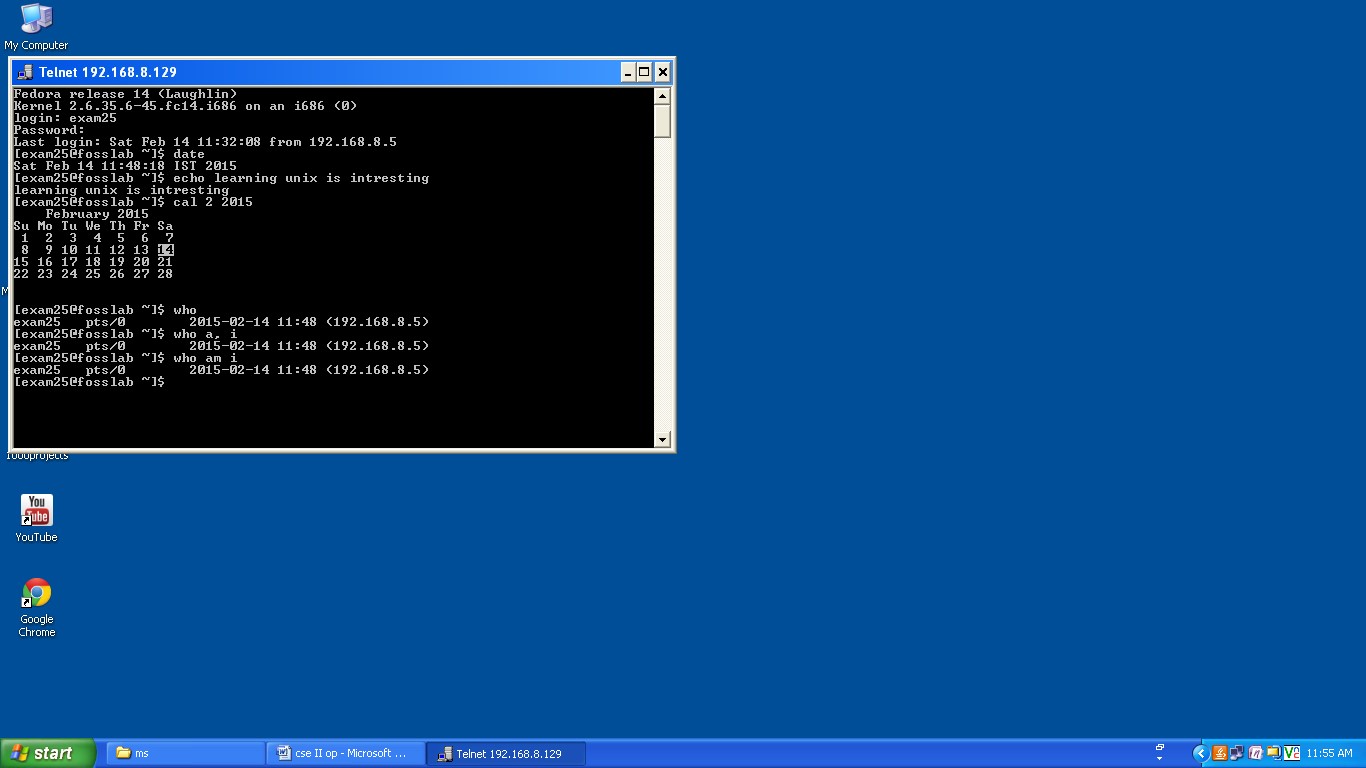
/opt/

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.

1. **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.

1. **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

1. **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

1. **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

1. accounts 3977
2. admin 1707
3. marketing 39
4. marketing 39
5. personel 77
6. production 1739
7. sales 1008^C

[exam@fosslab ~]$ uniq dept.lst

1. accounts 3977
2. admin 1707
3. marketing 39
4. personel 77
5. 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

1. **THE more COMMAND:**

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

test1

1. **PASTING FILES:**

[exam@fosslab ~]$ paste std

Aswini

Bharathi

Charu

Deepa

1. **COMPARING FILES: cmp**

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

1. **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

1. **THE write COMMAND:**

**write**

[exam@fosslab ~]$ write exam25

Message from exam25@fosslab.linuxpert.in on pts/0 at 12:30 ... Hiiii

Hiiii

1. **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

1. **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

1. **THE at COMMAND:**

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

1. **THE sleep COMMAND:**

[exam@fosslab ~]$ sleep 1

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1. **KILLING PROCESSES WITH SIGNALS kill**

[exam@fosslab ~]$ kill 4921

**RESULT:**

Thus the basic UNIX commands were executed successfully.