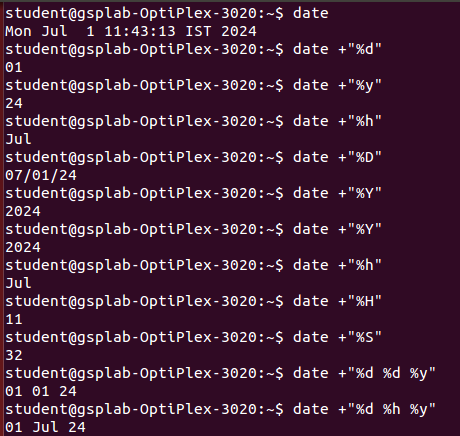
**EXP NO : 1**

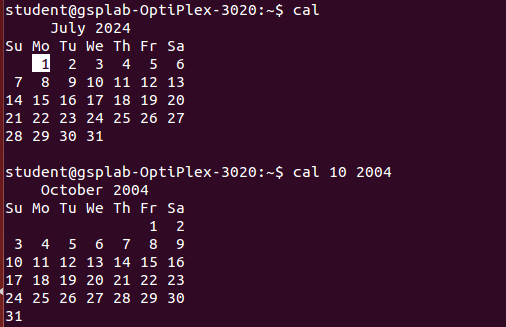
**Commands:**

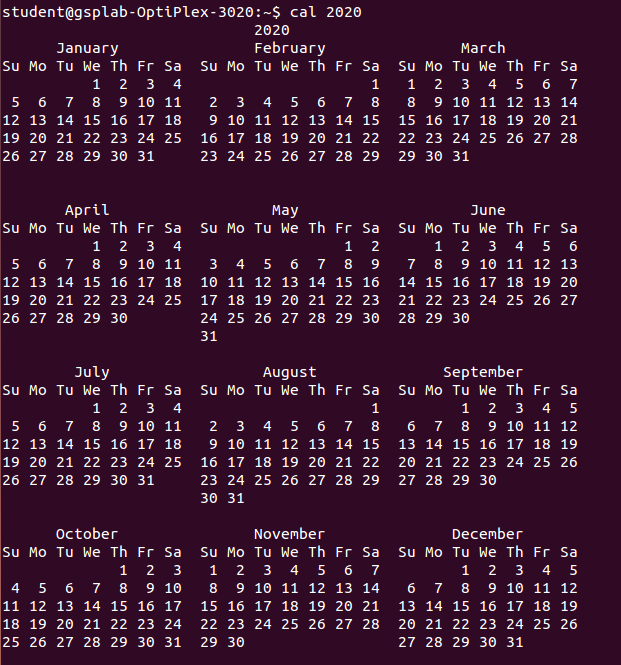
**1]** **DATE**

**date**



**2] CAL**





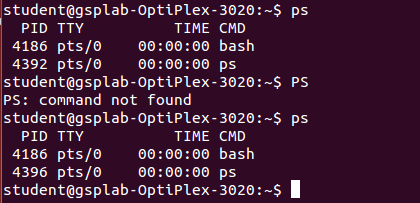
**3] WHO**

**Who**



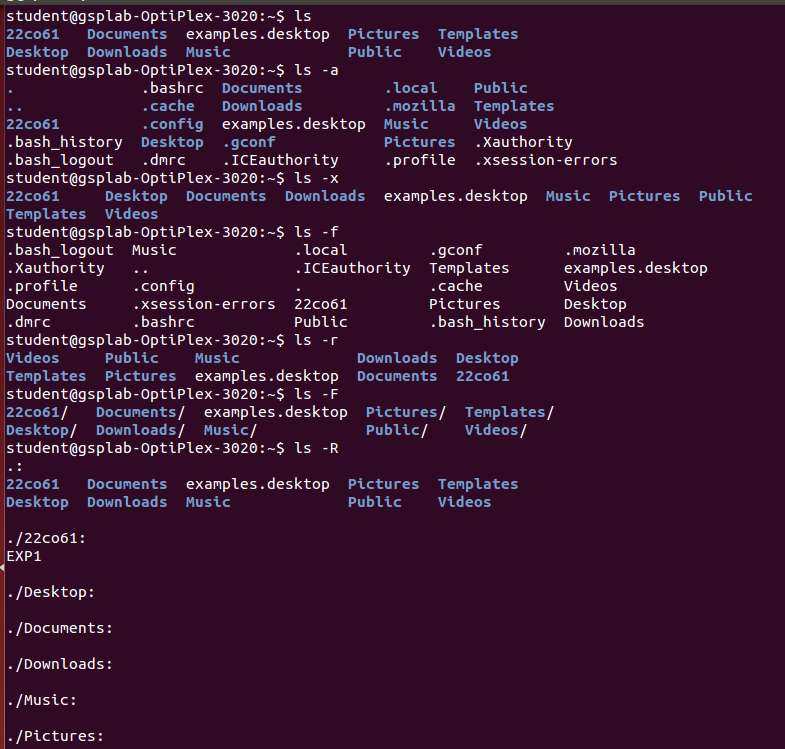


**4] PS**



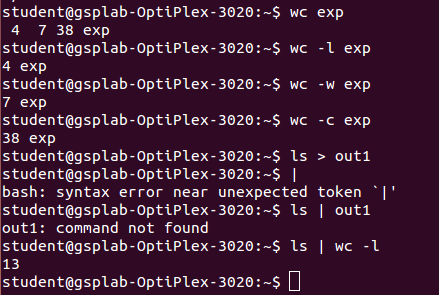
**5] LS**

**ls**



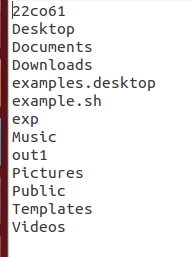
**6] WC**

**wc**



**7] METACHARACTER**

**ls > output\_of\_ls //takes the list of directories and puts in a file name given**





**8] CAT //used to open or create file**

**cat greating**

hello world

this is the 1st day of sem 5

good luck!

**cat > new\_file\_created\_from\_terminal**

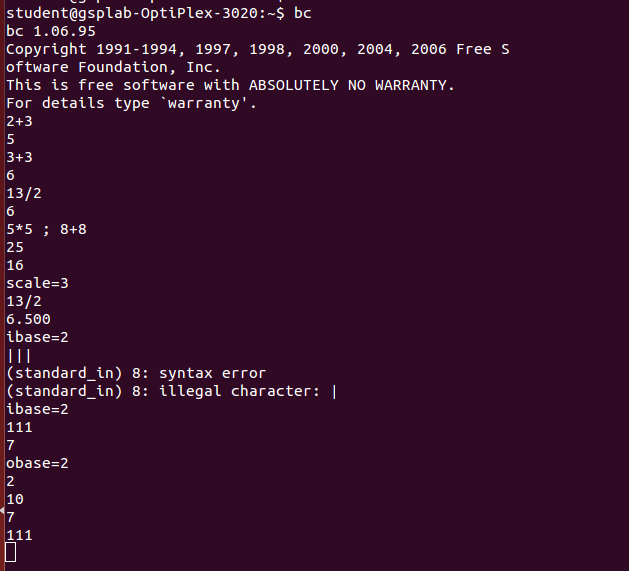
to exit use Ctrl+d

**cat new\_file\_created\_from\_terminal**

to exit use Ctrl+d

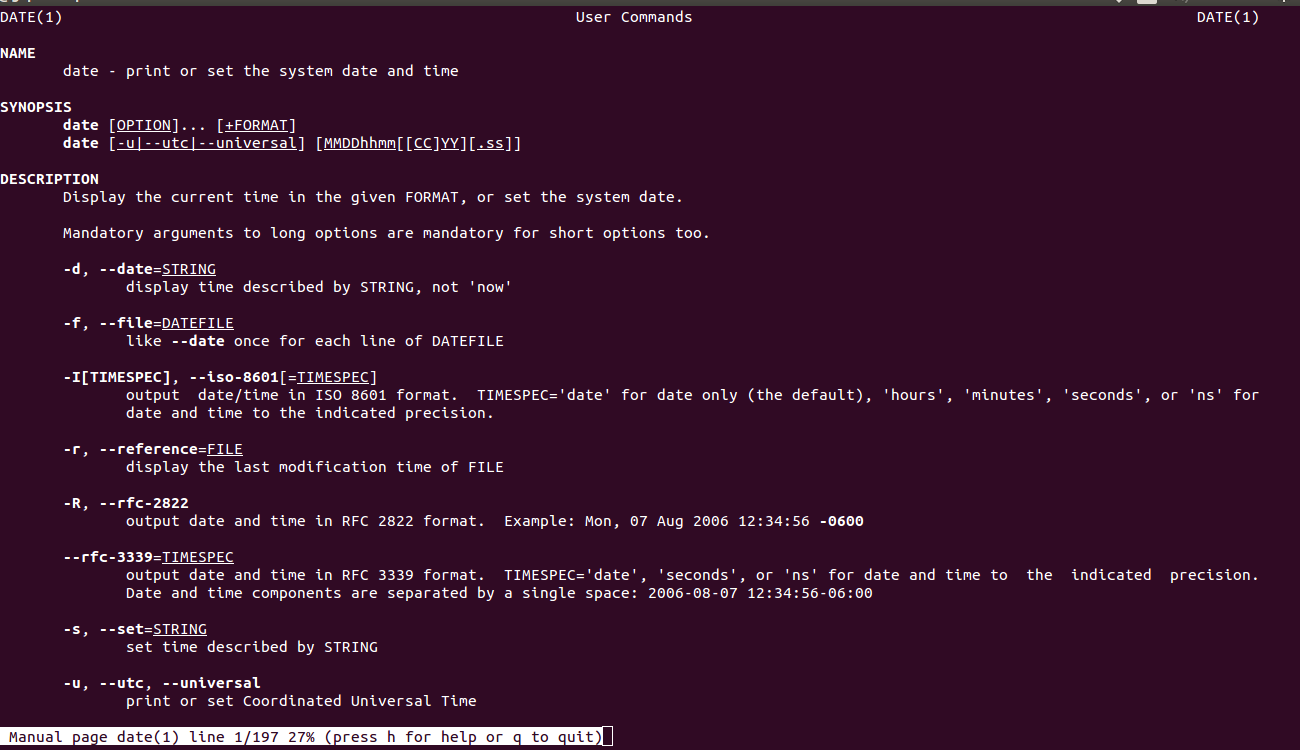
**9] BC //open calculator**

**bc**

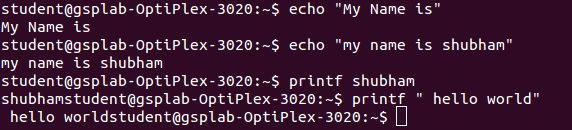


**10] MANUAL**

**man date**



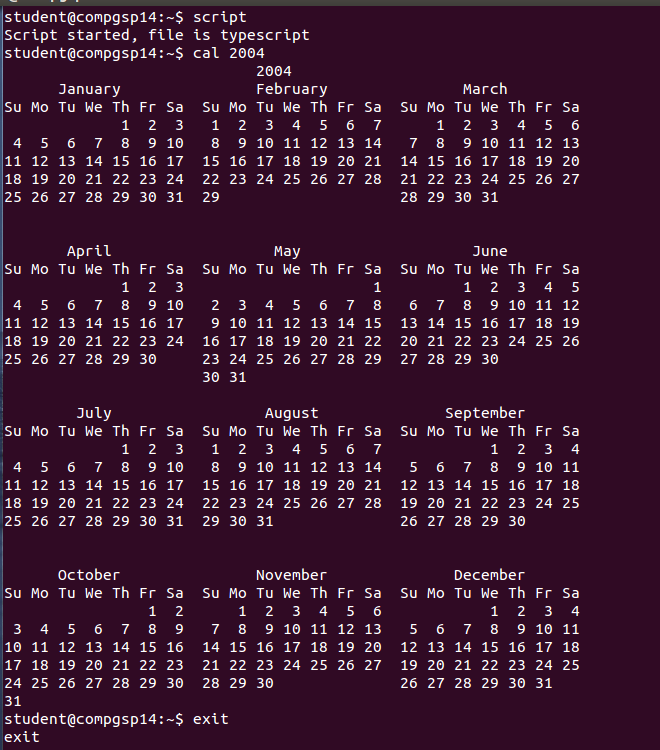
**11] ECHO**

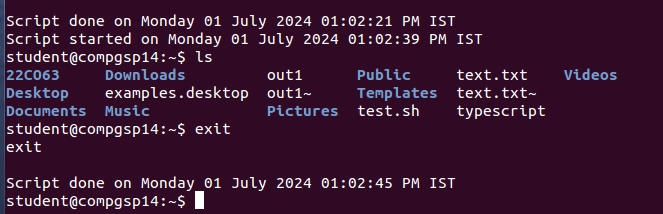
****

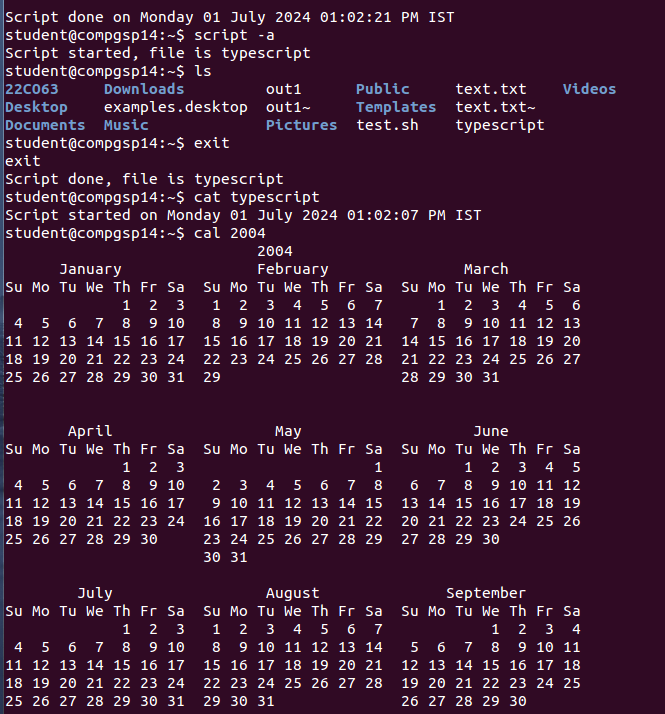
1. **echo "Today's date is `date +”%d %h %y” ‘**

**Today's date is 01 Jul 24**

**12] script //records the session**







**13] Password**

**Changing password for student.**

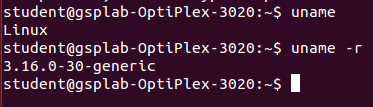
**Current password:**

**Current Password:**

**passwd: Authentication token manipulation error**

**passwd: password unchanged**

**14] uname**

****

**15] tty**

C:\Users\user\Downloads\mkdir.png

**16] pwd //knowing the current path of where your working**

C:\Users\user\Downloads\rmdir.png

**17] mkdir**

**i) To create new folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ mkdir Folder

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls

Desktop Downloads Music Pictures Templates

Documents Folder OS Public Videos

**ii) To create multiple folders**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ mkdir wt cn

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls

cn Documents Folder OS Public Videos

Desktop Downloads Music Pictures Templates wt

**iii)To create folder inside folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ mkdir dbms dbms/unit1 dbms/unit1/chapter1



**18] rmdir**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ rmdir dbms/unit1/chapter1 dbms/unit1 dbms

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls dbms

ls: cannot access 'dbms': No such file or directory

**19] cd**



**20] cp (copy)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cat > test1.txt

Hello World!

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cat test1.txt

Hello World!

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cp test1.txt test2.txt

**i) To copy into folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cp test1.txt test2.txt wt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls wt

test1.txt test2.txt

**ii) To copy folder into folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cp -r f1 f2

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls f2

f1

**iii)To take permission to overwrite existing file**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ cp -i test1.txt test2.txt

cp: overwrite 'test2.txt'? y

**21] rm (remove file)**

**i) To remove file**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ rm file1.txt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file1.txt

ls: cannot access 'file1.txt': No such file or directory

**ii) To remove file from folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls f1

test2.txt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ rm f1/test2.txt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls f1

comp-gsp-02@compgsp02-OptiPlex-3020:~$

**iii) To remove file with permission**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ rm -i file1.txt

rm: remove regular file 'file1.txt'? y

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file1.txt

ls: cannot access 'file1.txt': No such file or directory

**iv)To remove all files in the folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls f2

test1.txt test2.txt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ rm -r f2

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls f2

ls: cannot access 'f2': No such file or directory

**22] mv (To move files)**

**i) To rename file**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ mv test2.txt new.txt

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls new.txt

new.txt

**ii) To move file to folder**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ mv new.txt cn

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls cn

new.txt

**23] Wild Cards (Pattern matching)**

**i) \* (Zero or more character)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file\*

file123.txt file12.txt file1.txt file2.txt file3.txt

**ii) ? (A single character)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file?.txt

file1.txt file2.txt file3.txt

**iii) [ijk] (matches single character i,j or k)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file[123].txt

file1.txt file2.txt file3.txt

**iv) [1-4] (It matches single character either 1,2,,3 or 4)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file[1-4].txt

file1.txt file2.txt file3.txt

**v) [!ijk] (Matches single character other than i,j or k)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file[!23].txt

file1.txt

**vi) [! 1-4] (Not of range)**

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls file[!1-2].txt

file3.txt

**viii) Pattern Matching**

i) Match all file name with the single character extension with single character extension but

not .c and .o

comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls \*.[!co]??

file123.txt file1.txt file3.txt

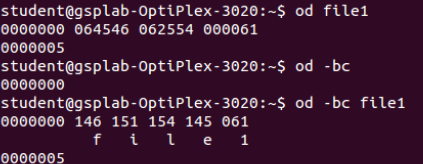
file12.txt file2.txt google-chrome-stable\_current\_amd64.deb

**ii) Match all file name doesn’t begin with character**

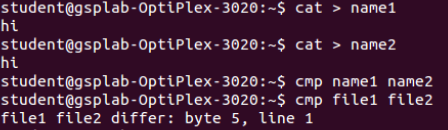
comp-gsp-02@compgsp02-OptiPlex-3020:~$ ls [!A-Za-z]\*

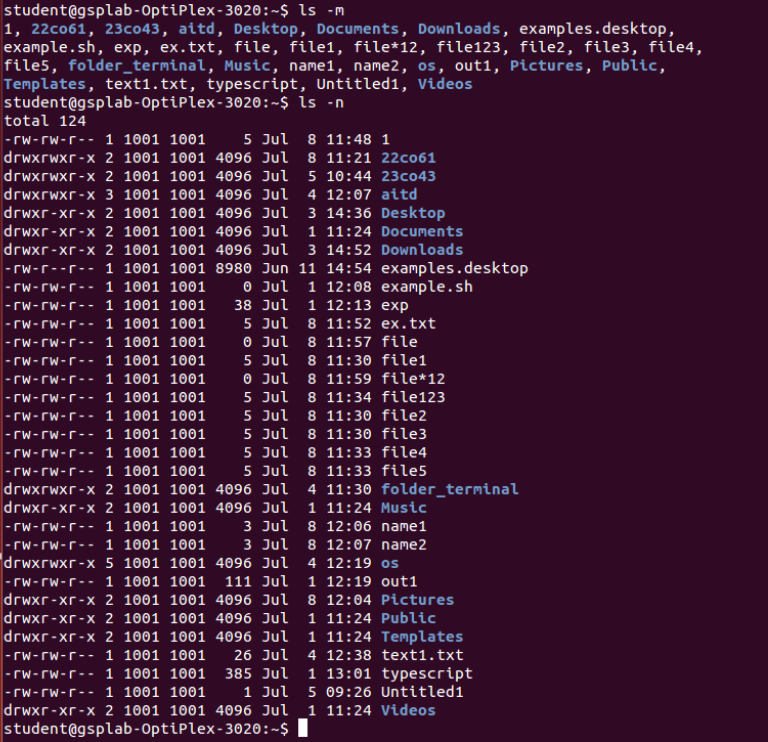
18.txt

**24] od ( To read o and exe file)**

****

**25] cmp**

****

****

**26] chmod (To change permission read write)**

i) relative permission (what is told to be changed)

U - user + assigning permission

G - group - removing the permission

O - others w - write; read r; execution x

A - all

Q1) assuming the file name called file1 perform the following operations

Assign execution for user

Assign writing for group

Assign remove execution for others

****

Q2) on file2 change the following permissions

Assign read for all

Writing for owner and all

Execution for owner and others

****

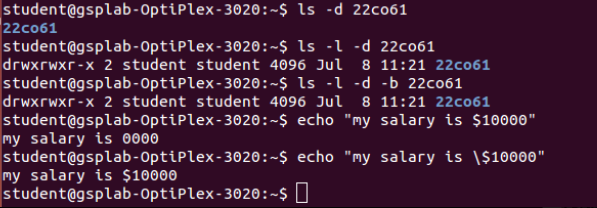
Q3) on file1 assign following permissions

Reading and writing for user (6 - 110)

Writing execution for group owner

And only reading for others

****

****

**27] Pr (paginating the file)**

student@compgsp14:~$ pr emp.txt

2233|a.k. shukla|g.m.|sales|12/12/52|6000

9876|jai sharma|director|production|03/12/50|7000

5678|sumit chakrobarty|d.g.m|marketing|04/19/43|6000

2365|barun sengupta|director|personnel|05/11/47|7800

5423|n.k. gupta|chairman|admin|08/30/56|5400

1006|chanchal sanghvi|director|sales|09/03/38|6700

6213|karuna ganguly|g.m.|accounts|06/05/62|6300

1265|s.n. dasgupta|manager|sales|09/12/63|5600

4290|jayant Chodhury|executive|production|09/07/50|6000

2476|anil aggarwal|manager|sales|05/01/59|5000

6521|lalit chowdury|director|marketing|09/26/45|8200

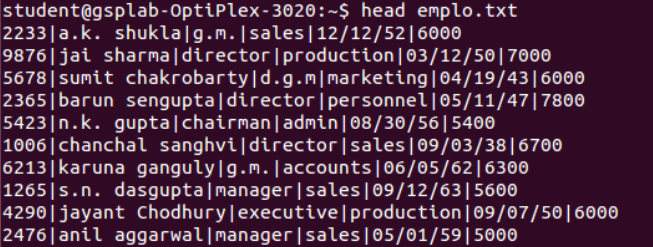
3212|shyam saksena|d.g.m|accounts|12/12/55|6000

3564|sudhir Agarwal|executive|personnel|07/06/47|8000

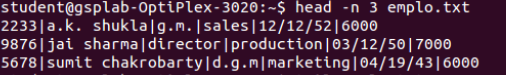
2345|j.b. saxena|g.m.|marketing|03/12/45|8000

0110|v.k. agrawal |g.m.|marketing|12/31/40|9000 ( reading for printing)

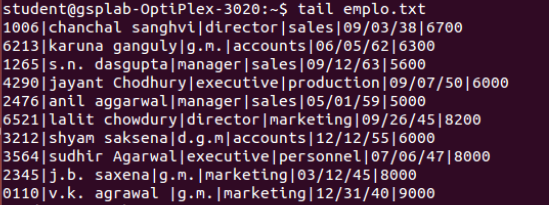
**28] Head ( print 2st 10 line for printing )**

****

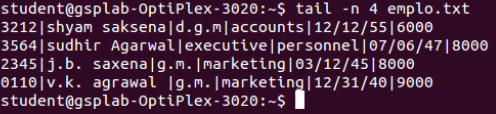
**i) head -n 3 ( To print only first 3 lines )**

****

**29] Tail ( print last 10 line of file )**

****

**i] tail –n 4**

****

**ii] tail –n 1**

****

**iii] student@compgsp14:~$ tail +8 emp.txt**

1265|s.n. dasgupta|manager|sales|09/12/63|5600

4290|jayant Chodhury|executive|production|09/07/50|6000

2476|anil aggarwal|manager|sales|05/01/59|5000

6521|lalit chowdury|director|marketing|09/26/45|8200

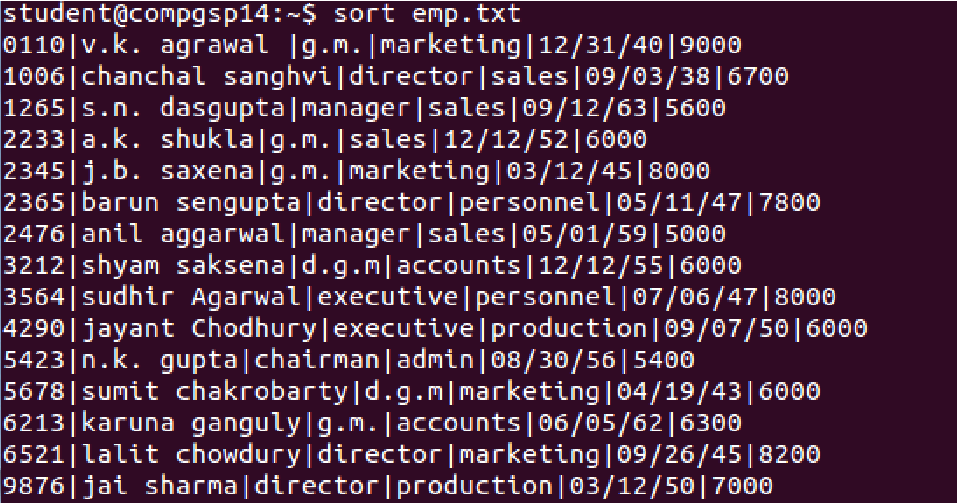
3212|shyam saksena|d.g.m|accounts|12/12/55|6000

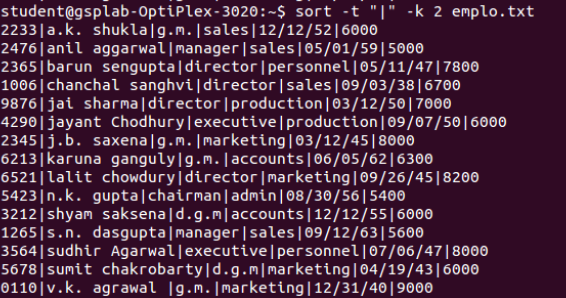
3564|sudhir Agarwal|executive|personnel|07/06/47|8000

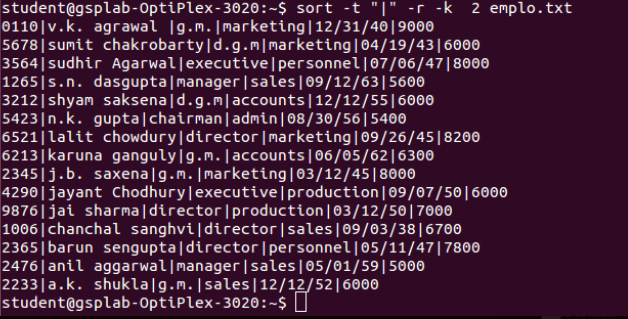
2345|j.b. saxena|g.m.|marketing|03/12/45|8000

0110|v.k. agrawal |g.m.|marketing|12/31/40|9000

**30] Sort**



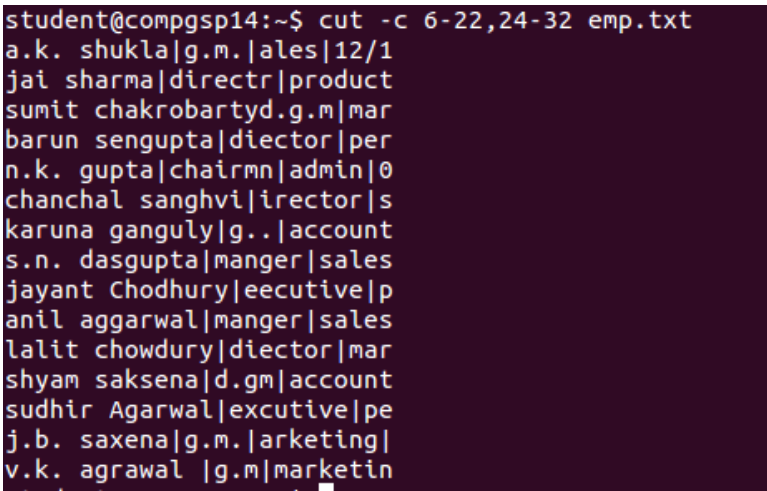
****

****

****

****

**31] Cut-c**



**32] Sorting Number**

student@compgsp006-OptiPlex-3020:~$ cat note1.txt

16

15

11

14

14

10

9

6

7

7

17

1

3

4

**student@compgsp006-OptiPlex-3020:~$ sort –n note1.txt**

1

3

4

6

7

7

9

10

11

14

14

15

16

17

**student@compgsp006-OptiPlex-3020:~$ cat > note2 .txt**

8

5

6

1

9

4

7

**student@compgsp006-OptiPlex-3020:~$ sort -o new\_sort note2 .txt**

**student@compgsp006-OptiPlex-3020:~$ cat new\_sort**

**1**

**4**

**5**

**6**

**7**

**8**

**9**

**33] Uniq**

student@compgsp006-OptiPlex-3020:~$ cat > note3 .txt

1

2

3

4

5

6

7

8

9

10

**student@compgsp006-OptiPlex-3020:~$ uniq –u note3 .txt**

1

2

3

4

5

6

7

8

9

10

**student@compgsp006-OptiPlex-3020:~$ cat > note3 .txt**

1

2

2

3

4

4

5

6

7

7

7

8

9

10

**student@compgsp006-OptiPlex-3020:~$ uniq -u note3 .txt**

1

3

5

6

8

9

10

**student@compgsp006-OptiPlex-3020:~$ uniq –c note3.txt**

1 1

2 2

1 3

2 4

1 5

1 6

3 7

1 8

1 9

1 10

**34] Comm ( To find common context in file)**

student@compgsp006-OptiPlex-3020:~$ cat > note\_4. txt

**100**

**50**

**80**

student@compgsp006-OptiPlex-3020:~$ cat > note\_5. txt

**100**

**50**

**80**

**60**

**30**

student@compgsp006-OptiPlex-3020:~$ comm note\_4. txt note\_5.txt

**100**

**50**

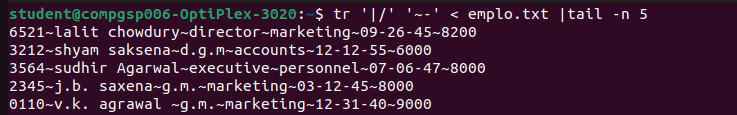
**80**

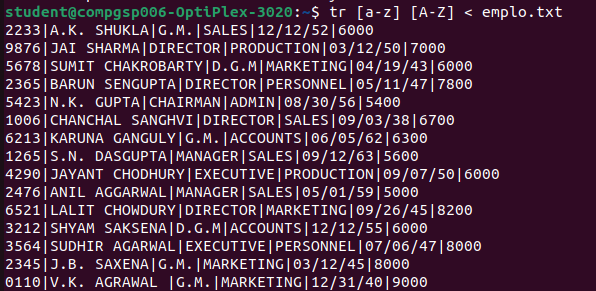
**60**

Comm : file 2 is not sorted order

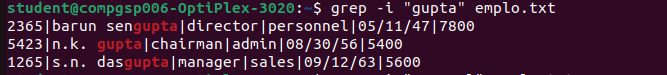
**30**

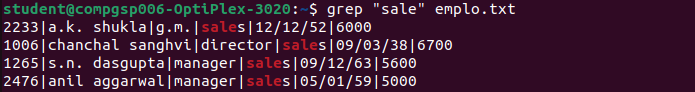
**35] Tr (translating character)**





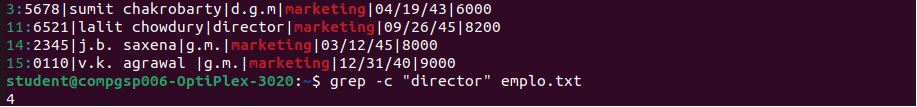
**36] Grep**

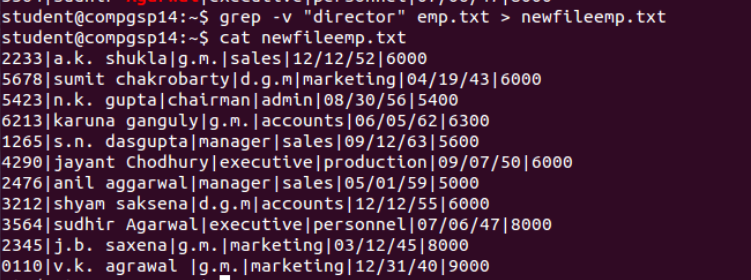
****

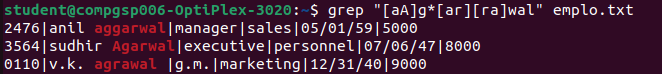
****

****

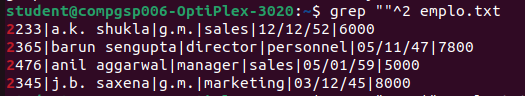
****

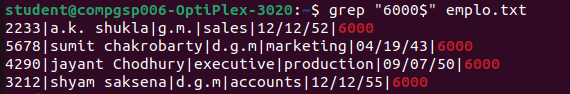
****

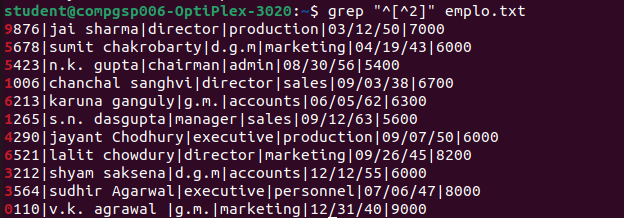
****

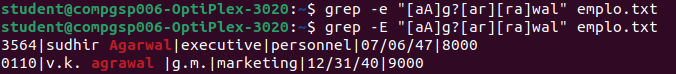
****

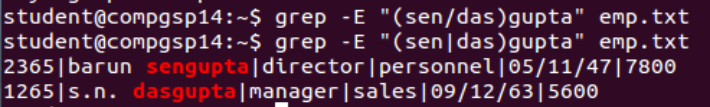
****

****

****

****

****

****

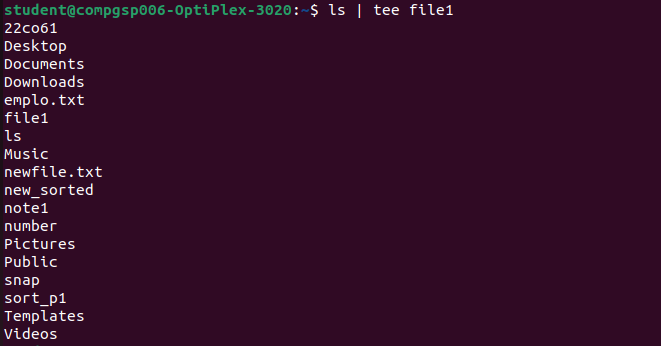
**37] Touch**

student@compgsp006-OptiPlex-3020:~$ touch note1

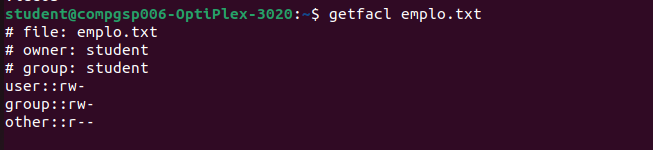
student@compgsp006-OptiPlex-3020:~$ ls –l note1

-rw-rw-r-- 1 student student 0 Jul 11 12:39 note1

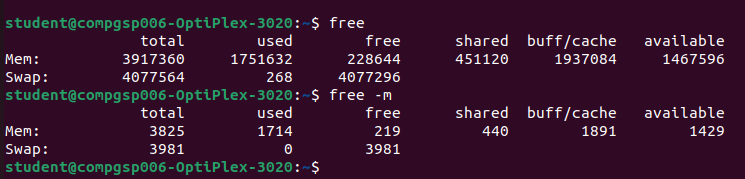
**38] Tee**

****

**39] Getfacl**

****

**40] Free**

****