

- Shell program on paste cmd  
 echo "Executing paste Command"  
 echo "Contents of file 1"  
 cat cutlist1  
 echo "Contents of file 2"  
 cat cutlist2  
 echo "After executing the Paste Command"  
 paste cutlist3 cutlist1 cutlist2

O/P Contents of file 1

A  
N  
A  
N  
Y  
A

Contents of file 2

S  
H  
E  
T  
T  
Y

Note the files must be created

cat > cutlist1

A  
N  
A  
N  
Y  
A

cat > cutlist2

S  
H  
E  
T  
T  
Y

cat > cutlist3

[empty file]

After executing the Paste Command

A S  
N H  
A E  
N T  
Y Y

- Shell program for sort with 3 options

echo "Executing of Sort Command"

sort emp.lst

echo "

echo "Sort of hum file"

sort -n humfile1

echo "

echo "to check the default file is sorted"

sort -c emp.lst

echo "

echo "sorting on reverse list"

sort -t "|" -g emp.lst  
 echo "

Execution of sort Command

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

9876 | jai sharma | dir | prod | 03/12/50 | 7000

Sort of num file

0

5

10

100

Sorting in reverse list

9876 | jai sharma | dir | prod | 03/12/50 | 7000

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

3. Demo of uniq and tr cmd

uniq cut -d "|" -f 3 emp.lst | sort | uniq -d

o/p

d.g.m

director

executive

g.m

manager

tr

echo 'translating Characters'

tr '\|' '~' < emp.lst | head -n 3

o/p

2233 ~ a.k Shukla ~ g.m ~ Sales ~ 12/12/52 ~ 6000

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

5678 ~ Sumit Chakraborty ~ d.g.m ~ marketing ~ 04/19/43 ~ 6000

4. write a c pgm to that o/p's the contents of its environment list

Pgm

```
#include <stdio.h>
int main( int argc, char *argv[])
{
    int i;
    char ** ptr;
    extern char ** environ;
    for (ptr = environ; *ptr != 0; ptr++)
        printf("%s\n", *ptr);
    return 0;
}
```

```
gcc c1.c
./a.out
```

O/p

```
SHELL = /bin/bash
SESSION-MANAGER = local /bms6-HP -Pro -3330-MT
BT ACCESSIBILITY=1
COLORTERM = truecolor
XDG_CONFIG_DIRS = /etc/xdg/xdg-ubuntu
XDG_MENU_PREFIX = gnome-
LANGUOGE = en_IN:en
GNOME_DESKTOP_SESSION_ID = this is deprecated
```

O/p sum  
a/1/23