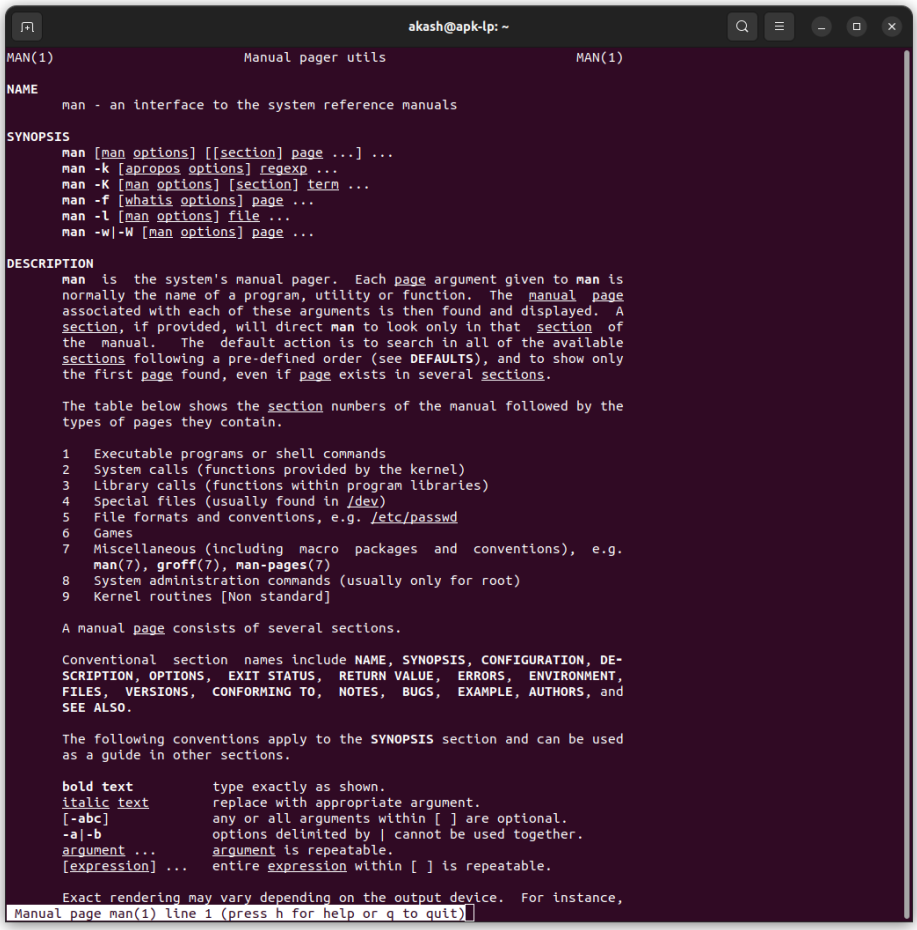
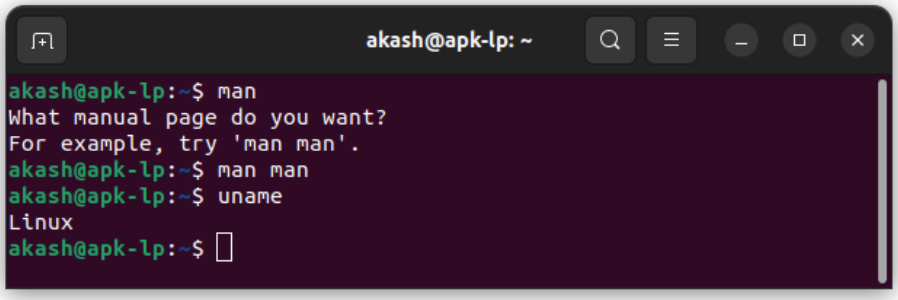
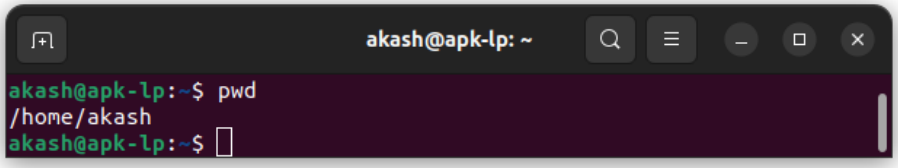
Assign 1 : Basic Linux Commands





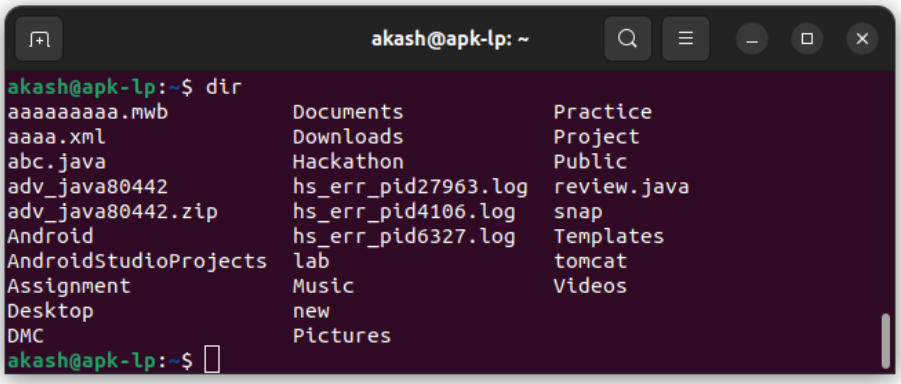


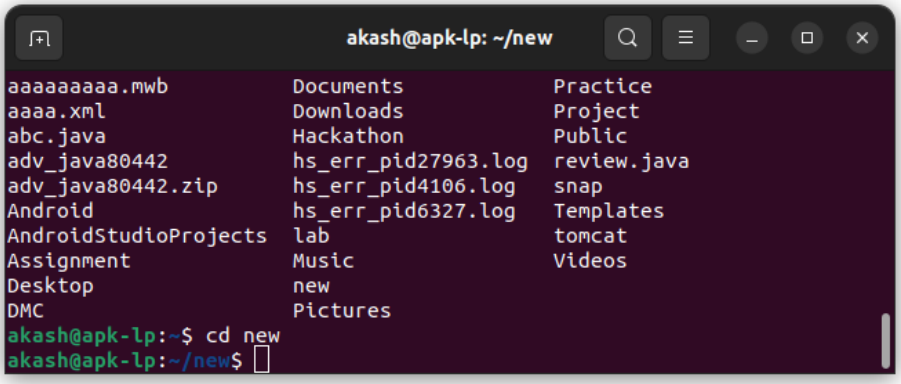
```
akash@apk-lp: ~
akash@apk-lp:~$ hostname
apk-lp
akash@apk-lp:~$
```

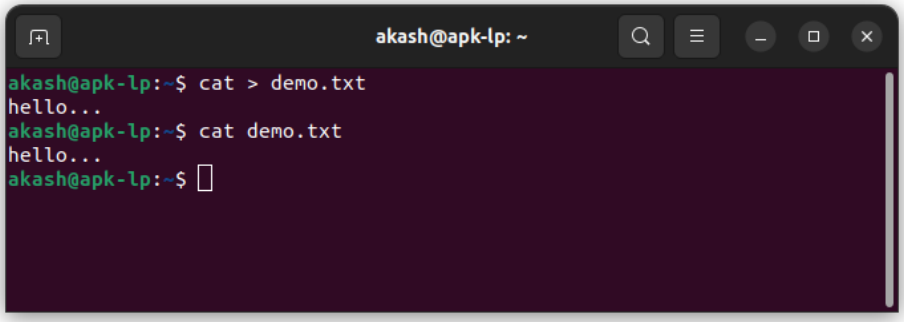
```
akash@apk-lp: ~
akash@apk-lp:~$ date
Monday 25 December 2023 03:38:15 PM IST
akash@apk-lp:~$
```

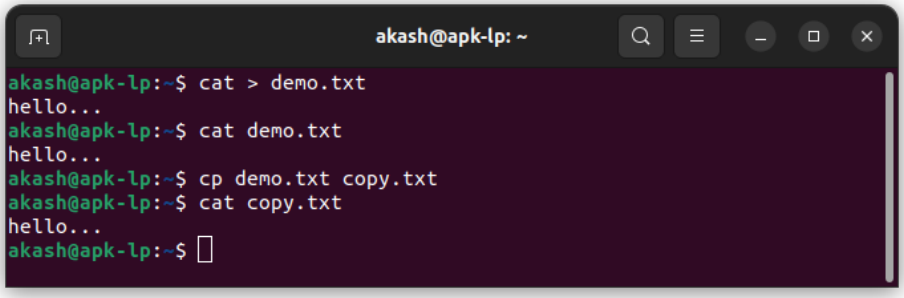
```
akash@apk-lp: ~
akash@apk-lp:~$ cal -y
                                2023
      January               February              March
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7            1  2  3  4            1  2  3  4
 8  9 10 11 12 13 14   5  6  7  8  9 10 11   5  6  7  8  9 10 11
15 16 17 18 19 20 21  12 13 14 15 16 17 18  12 13 14 15 16 17 18
22 23 24 25 26 27 28  19 20 21 22 23 24 25  19 20 21 22 23 24 25
29 30 31              26 27 28              26 27 28 29 30 31


      April                 May                   June
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
                   1      1  2  3  4  5  6                  1  2  3
 2  3  4  5  6  7  8   7  8  9 10 11 12 13   4  5  6  7  8  9 10
 9 10 11 12 13 14 15  14 15 16 17 18 19 20  11 12 13 14 15 16 17
16 17 18 19 20 21 22  21 22 23 24 25 26 27  18 19 20 21 22 23 24
23 24 25 26 27 28 29  28 29 30 31           25 26 27 28 29 30
30

       July                  August              September
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
                   1         1  2  3  4  5                  1  2
 2  3  4  5  6  7  8   6  7  8  9 10 11 12   3  4  5  6  7  8  9
 9 10 11 12 13 14 15  13 14 15 16 17 18 19  10 11 12 13 14 15 16
16 17 18 19 20 21 22  20 21 22 23 24 25 26  17 18 19 20 21 22 23
23 24 25 26 27 28 29  27 28 29 30 31        24 25 26 27 28 29 30
30 31

      October               November              December
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7            1  2  3  4                  1  2
 8  9 10 11 12 13 14   5  6  7  8  9 10 11   3  4  5  6  7  8  9
15 16 17 18 19 20 21  12 13 14 15 16 17 18  10 11 12 13 14 15 16
22 23 24 25 26 27 28  19 20 21 22 23 24 25  17 18 19 20 21 22 23
29 30 31              26 27 28 29 30        24 25 26 27 28 29 30
                                            31
akash@apk-lp:~$
```

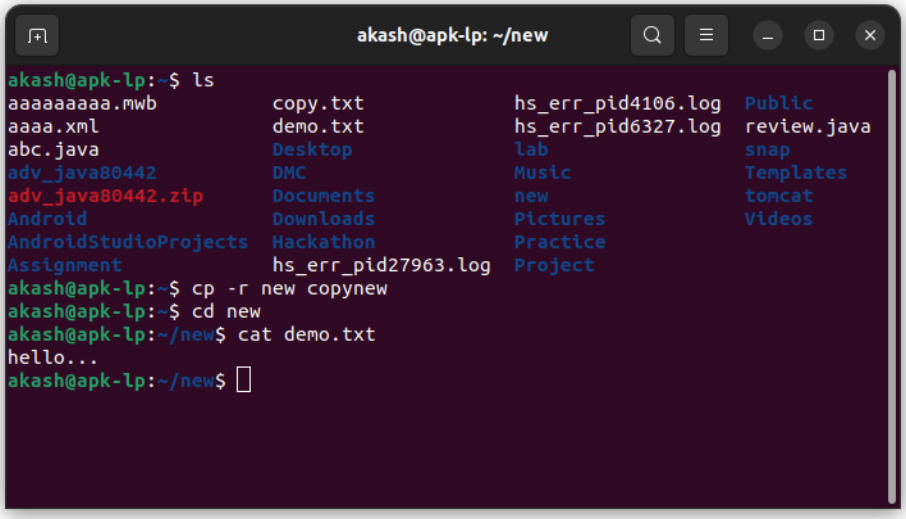
```
akash@apk-lp: ~
akash@apk-lp:~$ ls
aaaaaaaaa.mwb           Documents             Practice
aaaa.xml                Downloads             Project
abc.java                Hackathon             Public
adv_java80442           hs_err_pid27963.log   review.java
adv_java80442.zip       hs_err_pid4106.log    snap
Android                 hs_err_pid6327.log    Templates
AndroidStudioProjects   lab                   tomcat
Assignment              Music                 Videos
Desktop                 new
DMC                     Pictures
akash@apk-lp:~$
```

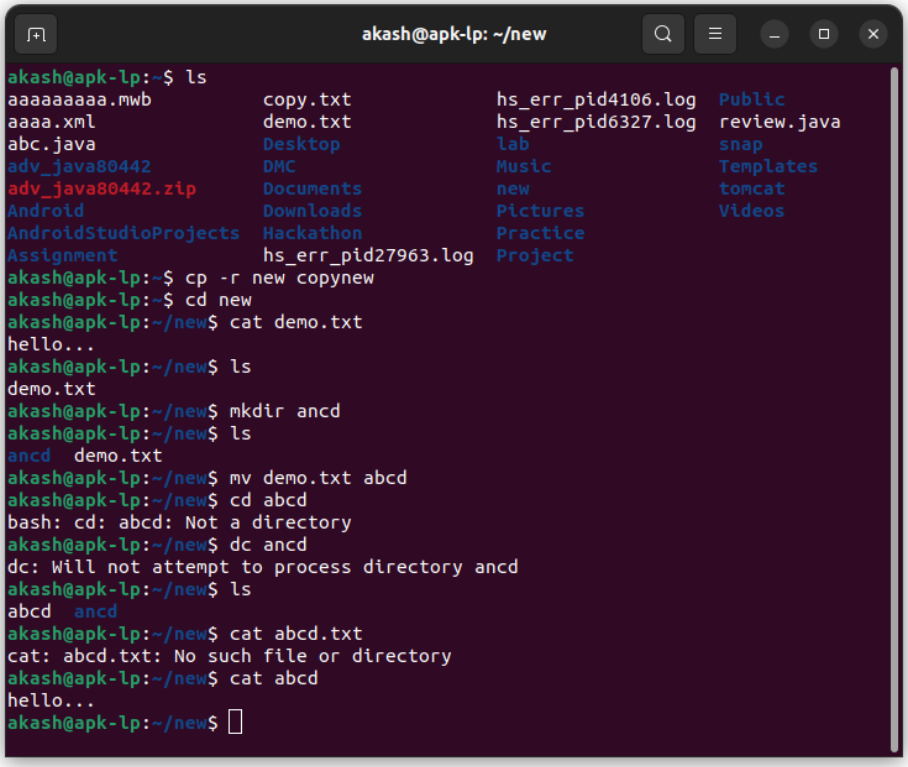

akash@apk-lp: ~
akash@apk-lp:~$ dir
aaaaaaaaa.mwb
aaaa.xml
abc.java
adv_java80442
adv_java80442.zip
Android
AndroidStudioProjects
Assignment
Desktop
DMC
Documents
Downloads
Hackathon
hs_err_pid27963.log
hs_err_pid4106.log
hs_err_pid6327.log
lab
Music
new
Pictures
Practice
Project
Public
review.java
snap
Templates
tomcat
Videos
akash@apk-lp:~$

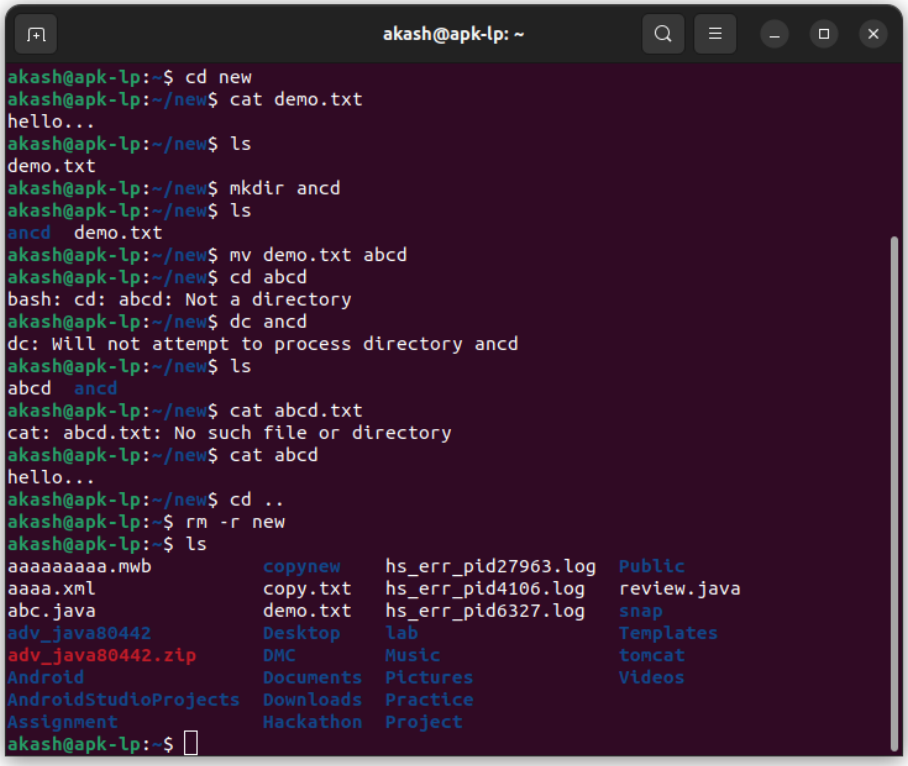

akash@apk-lp: ~/new
aaaaaaaaa.mwb
aaaa.xml
abc.java
adv_java80442
adv_java80442.zip
Android
AndroidStudioProjects
Assignment
Desktop
DMC
Documents
Downloads
Hackathon
hs_err_pid27963.log
hs_err_pid4106.log
hs_err_pid6327.log
lab
Music
new
Pictures
Practice
Project
Public
review.java
snap
Templates
tomcat
Videos
akash@apk-lp:~$ cd new
akash@apk-lp:~/new$

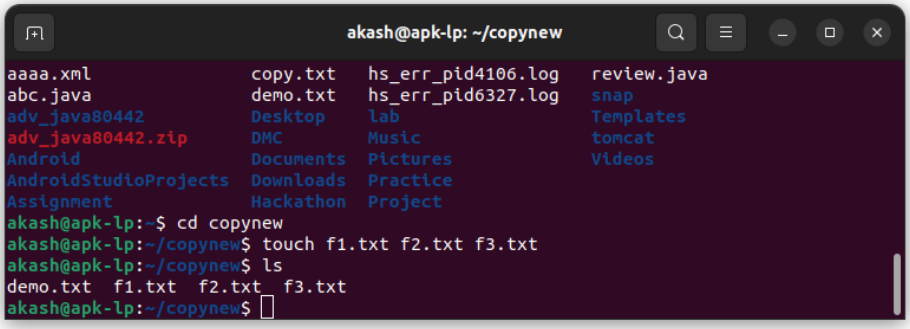

akash@apk-lp: ~
akash@apk-lp:~$ cat > demo.txt
hello...
akash@apk-lp:~$ cat demo.txt
hello...
akash@apk-lp:~$

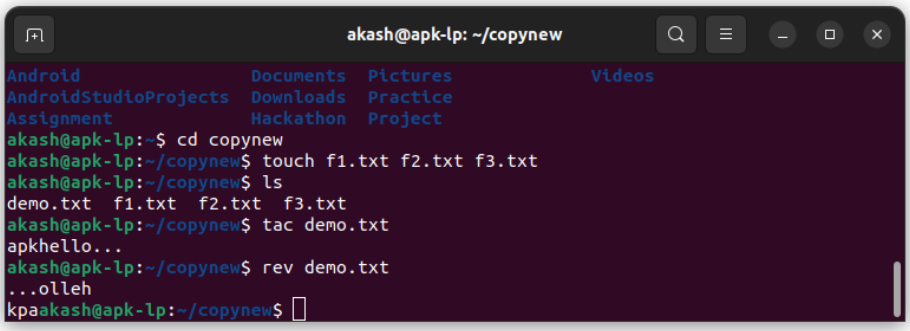

akash@apk-lp: ~
akash@apk-lp:~$ cat > demo.txt
hello...
akash@apk-lp:~$ cat demo.txt
hello...
akash@apk-lp:~$ cp demo.txt copy.txt
akash@apk-lp:~$ cat copy.txt
hello...
akash@apk-lp:~$

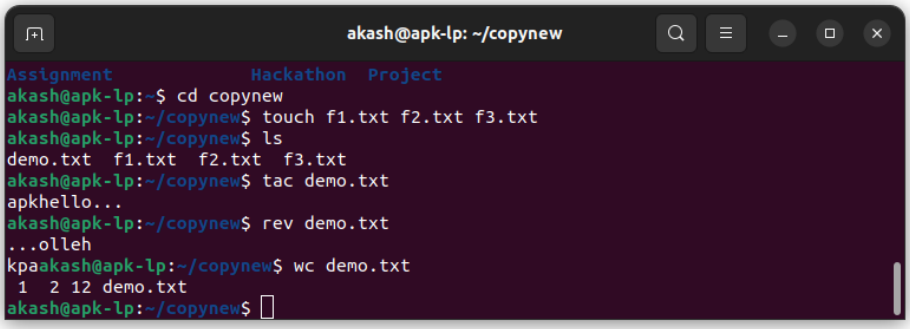

akash@apk-lp: ~/new
akash@apk-lp:~$ ls
aaaaaaaaa.mwb
aaaa.xml
abc.java
adv_java80442
adv_java80442.zip
Android
AndroidStudioProjects
Assignment
copy.txt
demo.txt
Desktop
DMC
Documents
Downloads
Hackathon
hs_err_pid27963.log
hs_err_pid4106.log
hs_err_pid6327.log
lab
Music
new
Pictures
Practice
Project
Public
review.java
snap
Templates
tomcat
Videos
akash@apk-lp:~$ cp -r new copynew
akash@apk-lp:~$ cd new
akash@apk-lp:~/new$ cat demo.txt
hello...
akash@apk-lp:~/new$

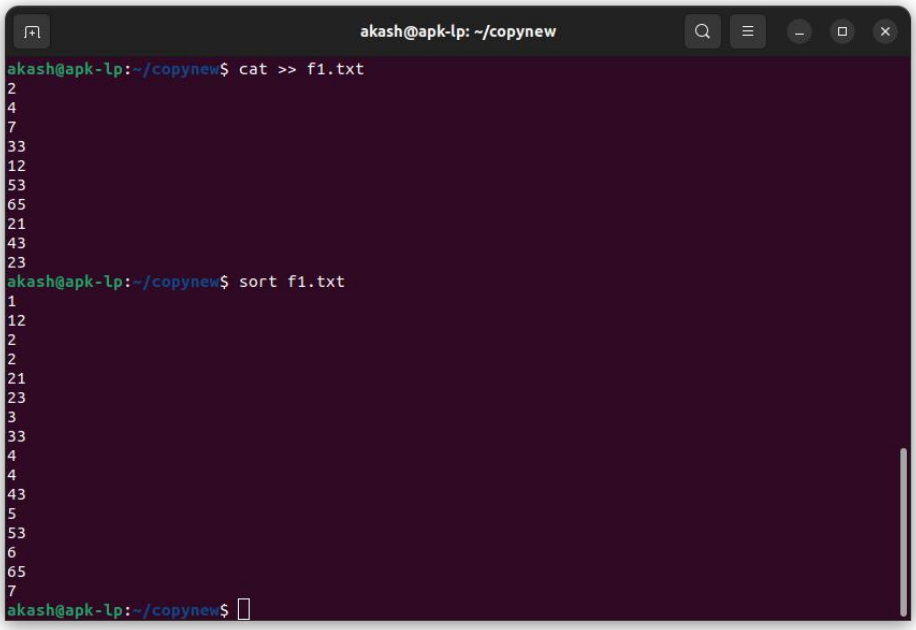

akash@apk-lp: ~/new
akash@apk-lp:~$ ls
aaaaaaaaa.mwb
aaaa.xml
abc.java
adv_java80442
adv_java80442.zip
Android
AndroidStudioProjects
Assignment
copy.txt
demo.txt
Desktop
DMC
Documents
Downloads
Hackathon
hs_err_pid27963.log
hs_err_pid4106.log
hs_err_pid6327.log
lab
Music
new
Pictures
Practice
Project
Public
review.java
snap
Templates
tomcat
Videos
akash@apk-lp:~$ cp -r new copynew
akash@apk-lp:~$ cd new
akash@apk-lp:~/new$ cat demo.txt
hello...
akash@apk-lp:~/new$ ls
demo.txt
akash@apk-lp:~/new$ mkdir ancd
akash@apk-lp:~/new$ ls
ancd demo.txt
akash@apk-lp:~/new$ mv demo.txt abcd
akash@apk-lp:~/new$ cd abcd
bash: cd: abcd: Not a directory
akash@apk-lp:~/new$ dc ancd
dc: Will not attempt to process directory ancd
akash@apk-lp:~/new$ ls
abcd ancd
akash@apk-lp:~/new$ cat abcd.txt
cat: abcd.txt: No such file or directory
akash@apk-lp:~/new$ cat abcd
hello...
akash@apk-lp:~/new$

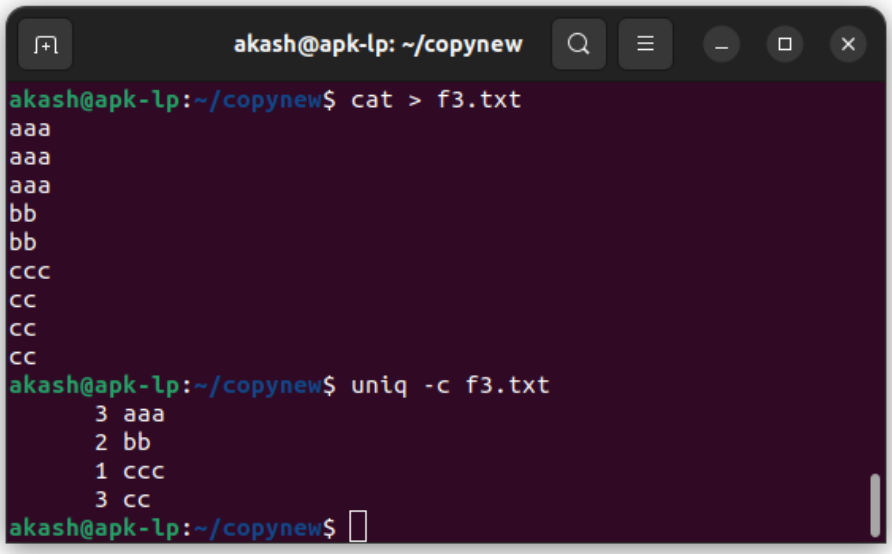

akash@apk-lp: ~
akash@apk-lp:~$ cd new
akash@apk-lp:~/new$ cat demo.txt
hello...
akash@apk-lp:~/new$ ls
demo.txt
akash@apk-lp:~/new$ mkdir ancd
akash@apk-lp:~/new$ ls
ancd demo.txt
akash@apk-lp:~/new$ mv demo.txt abcd
akash@apk-lp:~/new$ cd abcd
bash: cd: abcd: Not a directory
akash@apk-lp:~/new$ dc ancd
dc: Will not attempt to process directory ancd
akash@apk-lp:~/new$ ls
abcd ancd
akash@apk-lp:~/new$ cat abcd.txt
cat: abcd.txt: No such file or directory
akash@apk-lp:~/new$ cat abcd
hello...
akash@apk-lp:~/new$ cd ..
akash@apk-lp:~$ rm -r new
akash@apk-lp:~$ ls
aaaaaaaaa.mwb copynew hs_err_pid27963.log Public
aaaa.xml copy.txt hs_err_pid4106.log review.java
abc.java demo.txt hs_err_pid6327.log snap
adv_java80442 Desktop lab Templates
adv_java80442.zip DMC Music tomcat
Android Documents Pictures Videos
AndroidStudioProjects Downloads Practice
Assignment Hackathon Project
akash@apk-lp:~$

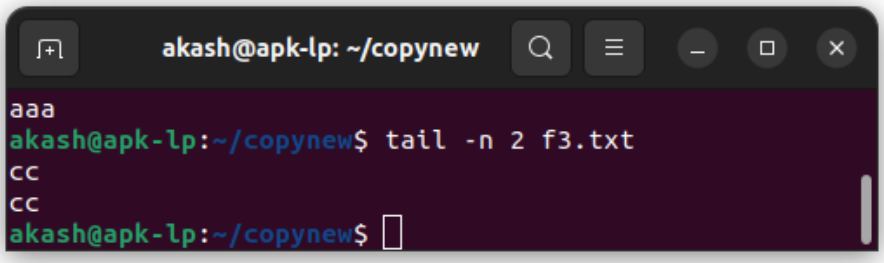

akash@apk-lp: ~/copynew
aaaa.xml copy.txt hs_err_pid4106.log review.java
abc.java demo.txt hs_err_pid6327.log snap
adv_java80442 Desktop lab Templates
adv_java80442.zip DMC Music tomcat
Android Documents Pictures Videos
AndroidStudioProjects Downloads Practice
Assignment Hackathon Project
akash@apk-lp:~$ cd copynew
akash@apk-lp:~/copynew$ touch f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$ ls
demo.txt f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$

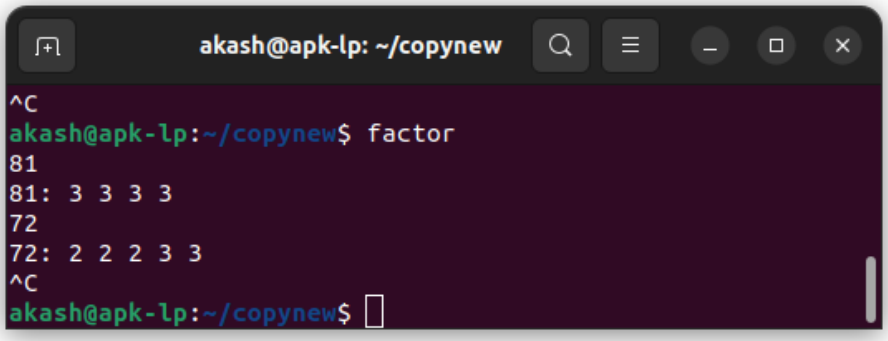

akash@apk-lp: ~/copynew
Android Documents Pictures Videos
AndroidStudioProjects Downloads Practice
Assignment Hackathon Project
akash@apk-lp:~$ cd copynew
akash@apk-lp:~/copynew$ touch f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$ ls
demo.txt f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$ tac demo.txt
apkhello...
akash@apk-lp:~/copynew$ rev demo.txt
...olleh
kpaakash@apk-lp:~/copynew$

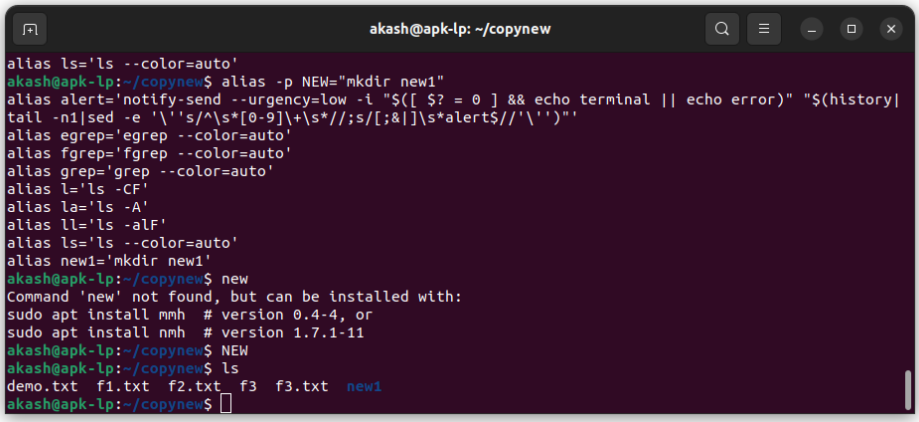

akash@apk-lp: ~/copynew
Assignment Hackathon Project
akash@apk-lp:~$ cd copynew
akash@apk-lp:~/copynew$ touch f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$ ls
demo.txt f1.txt f2.txt f3.txt
akash@apk-lp:~/copynew$ tac demo.txt
apkhello...
akash@apk-lp:~/copynew$ rev demo.txt
...olleh
kpaakash@apk-lp:~/copynew$ wc demo.txt
1 2 12 demo.txt
akash@apk-lp:~/copynew$

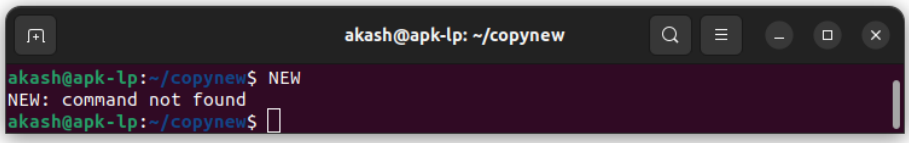

akash@apk-lp: ~/copynew
akash@apk-lp:~/copynew$ cat >> f1.txt
2
4
7
33
12
53
65
21
43
23
akash@apk-lp:~/copynew$ sort f1.txt
1
12
2
2
21
23
3
33
4
4
43
5
53
6
65
7
akash@apk-lp:~/copynew$

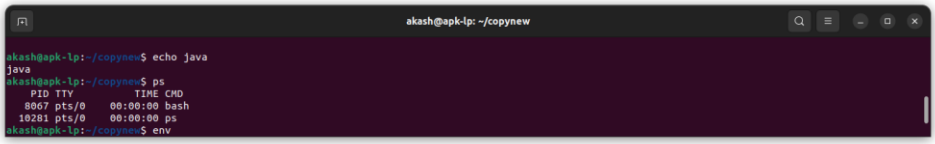

akash@apk-lp: ~/copynew
akash@apk-lp:~/copynew$ cat > f3.txt
aaa
aaa
aaa
bb
bb
ccc
cc
cc
cc
akash@apk-lp:~/copynew$ uniq -c f3.txt
3 aaa
2 bb
1 ccc
3 cc
akash@apk-lp:~/copynew$

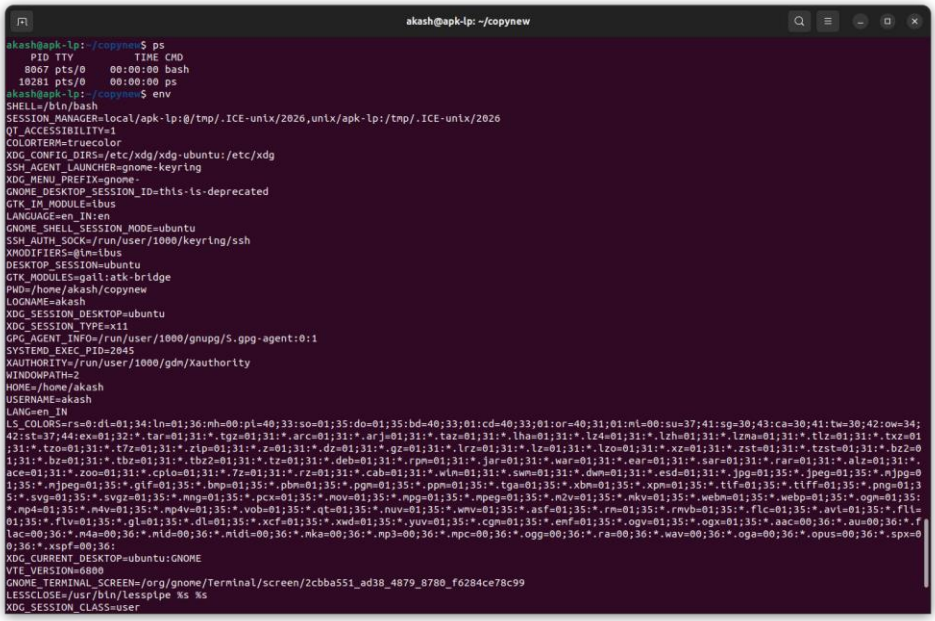

akash@apk-lp: ~/copynew
aaa
akash@apk-lp:~/copynew$ tail -n 2 f3.txt
cc
cc
akash@apk-lp:~/copynew$


akash@apk-lp: ~/copynew
^C
akash@apk-lp:~/copynew$ factor
81
81: 3 3 3 3
72
72: 2 2 2 3 3
^C
akash@apk-lp:~/copynew$


akash@apk-lp: ~/copynew
alias ls='ls --color=auto'
akash@apk-lp:~/copynew$ alias -p NEW="mkdir new1"
alias alert='notify-send --urgency=low -i "$([$? = 0] && echo terminal || echo error)" "$(history|
tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[;&|]\s*alert$//'\'')"'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -alF'
alias ls='ls --color=auto'
alias new1='mkdir new1'
akash@apk-lp:~/copynew$ new
Command 'new' not found, but can be installed with:
sudo apt install mmh # version 0.4-4, or
sudo apt install nmh # version 1.7.1-11
akash@apk-lp:~/copynew$ NEW
akash@apk-lp:~/copynew$ ls
demo.txt f1.txt f2.txt f3 f3.txt new1
akash@apk-lp:~/copynew$


akash@apk-lp: ~/copynew
akash@apk-lp:~/copynew$ NEW
NEW: command not found
akash@apk-lp:~/copynew$


akash@apk-lp: ~/copynew
akash@apk-lp:~/copynew$ echo java
java
akash@apk-lp:~/copynew$ ps
PID TTY TIME CMD
8067 pts/0 00:00:00 bash
10281 pts/0 00:00:00 ps
akash@apk-lp:~/copynew$ env


akash@apk-lp: ~/copynew
akash@apk-lp:~/copynew$ ps
PID TTY TIME CMD
8067 pts/0 00:00:00 bash
10281 pts/0 00:00:00 ps
akash@apk-lp:~/copynew$ env
SHELL=/bin/bash
SESSION_MANAGER=local/apk-lp:@/tmp/.ICE-unix/2026,unix/apk-lp:/tmp/.ICE-unix/2026
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GTK_IM_MODULE=ibus
LANGUAGE=en_IN:en
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
PWD=/home/akash/copynew
LOGNAME=akash
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=x11
GPG_AGENT_INFO=/run/user/1000/gnupg/S.gpg-agent:0:1
SYSTEMD_EXEC_PID=2045
XAUTHORITY=/run/user/1000/gdm/Xauthority
WINDOWPATH=2
HOME=/home/akash
USERNAME=akash
LANG=en_IN
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LESSCLOSE=/usr/bin/lesspipe %s %s
XDG_SESSION_CLASS=user