

# MODULE 2

## Basics Of System Administration in Linux

- 1) Create a new user account and home directory called "Duck"
- 2) Set the user account "Duck's" expiry date as 07 - 01 - 2015
- 3) find the id of the user account "Duck"
- 4) Type df and du commands and see the output on your terminal.
- 5) Type this command on the terminal and see the output :  
`du -ch *.txt`
- 6) Delete the user account "Duck" permanently along with its home folder.

```
balamurugan@balamurugan-Lenovo-E41-25:~$ sudo adduser --force-badname Duck
[sudo] password for balamurugan:
Allowing use of questionable username.
Adding user `Duck' ...
Adding new group `Duck' (1001) ...
Adding new user `Duck' (1001) with group `Duck' ...
Creating home directory `/home/Duck' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for Duck
Enter the new value, or press ENTER for the default
    Full Name []: Duck
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
balamurugan@balamurugan-Lenovo-E41-25:~$ █
```

```

balamurugan@balamurugan-Lenovo-E41-25:~$ ls /home
balamurugan Duck
balamurugan@balamurugan-Lenovo-E41-25:~$ sudo usermod -e 2023-10-2 Duck
balamurugan@balamurugan-Lenovo-E41-25:~$ id Duck
uid=1001(Duck) gid=1001(Duck) groups=1001(Duck)
balamurugan@balamurugan-Lenovo-E41-25:~$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
tmpfs           383900         1980    381920   1% /run
/dev/sda8       65333828 20619220  41363416  34% /
tmpfs          1919480           0   1919480   0% /dev/shm
tmpfs           5120            4     5116   1% /run/lock
/dev/sda7       524252      59980   464272  12% /boot/efi
tmpfs           383896         116    383780   1% /run/user/1000

```

```

balamurugan@balamurugan-Lenovo-E41-25:~$ du -ch *.txt
0      bala.txt
0      total
balamurugan@balamurugan-Lenovo-E41-25:~$ sudo userdel -r Duck
userdel: Duck mail spool (/var/mail/Duck) not found
balamurugan@balamurugan-Lenovo-E41-25:~$ ls /home
balamurugan

```

## Simple filters

1. Try to get the first 10 lines from /etc/passwd
2. try to get just the first 3 lines from /etc/passwd

```

balamurugan@balamurugan-Lenovo-E41-25:~$ head /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
balamurugan@balamurugan-Lenovo-E41-25:~$ head -n3 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
balamurugan@balamurugan-Lenovo-E41-25:~$

```

1. Try to get the Last 10 lines from /etc/passwd
2. Try to get just the Last 3 lines from /etc/passwd

```

balamurugan@balamurugan-Lenovo-E41-25:~$ tail /etc/passwd
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:122:129:/:/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131:/:/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534:/:/run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
balamurugan:x:1000:1000:Balamurugan,,,:/home/balamurugan:/bin/bash
balamurugan@balamurugan-Lenovo-E41-25:~$ tail -n3 /etc/passwd
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
balamurugan:x:1000:1000:Balamurugan,,,:/home/balamurugan:/bin/bash
balamurugan@balamurugan-Lenovo-E41-25:~$

```

## 1. Try to sort the file /etc/passwd in ascending order

```

balamurugan@balamurugan-Lenovo-E41-25:~$ sort -n /etc/passwd
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
balamurugan:x:1000:1000:Balamurugan,,,:/home/balamurugan:/bin/bash
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
geoclue:x:124:131:/:/var/lib/geoclue:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
gnome-initial-setup:x:126:65534:/:/run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
saned:x:122:129:/:/var/lib/saned:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
syslog:x:104:111:/:/home/syslog:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-sysv:100:116:systemd Sysv Service, GDM, KVM, ...:/usr/lib/systemd:/usr/sbin/nologin

```

## 2. Try to sort the file /etc/passwd in descending order

```

balamurugan@balamurugan-Lenovo-E41-25:~$ sort -rn /etc/passwd
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
uidd:x:107:115::/run/uidd:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
list:x:38:38:Mail List Manager:/var/list:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup:/bin/false
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
games:x:5:60:games:/usr/games:/usr/sbin/nologin

```

### 3. Try to sort the file /etc/passwd in assending order based on the 3rd column.

```

balamurugan@balamurugan-Lenovo-E41-25:~$ sort -t ":" -k3 /etc/passwd
root:x:0:0:root:/root:/bin/bash
balamurugan:x:1000:1000:Balamurugan,,,:/home/balamurugan:/bin/bash
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uidd:x:107:115::/run/uidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin

```



#### 4. Try to sort the file /etc/passwd in assending order based on the 3rd column and ask sort to look at the thrid column as a whole number.

```
balamurugan@balamurugan-Lenovo-E41-25:~$ sort -t ':' -k3n /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:/:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:/:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/:nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,:/var/lib/tpm:/bin/false
uuidd:x:107:115:/:run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:117:/:nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124:/:nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,:/run/speech-dispatcher:/bin/false
fwupd:x:120:126:fwupd software user,,:/run/fwupd:/usr/sbin/nologin
```

#### 1. Try to cut just the usernames from the file /etc/passwd

```
balamurugan@balamurugan-Lenovo-E41-25:~$ cut -d ':' -f 1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
tss
uuidd
systemd-oom
tcpdump
avahi-autoipd
usbmux
dnsmasq
kernoops
avahi
cups-pk-helper
rtkit
whoopsie
sssd
speech-dispatcher
```

1. Create a file alphabets.txt and key in all the 26 alphabets each one in a new line.
2. Create a file number.txt and key in 1 to 26 each one in a new line.
3. Try to paste those two files, to see which letter appears at what number.

```
balamurugan@balamurugan-Lenovo-E41-25:~$ cat alphabets.txt
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
```

```
balamurugan@balamurugan-Lenovo-E41-25:~$ cat numbers.txt
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
```

```
balamurugan@balamurugan-Lenovo-E41-25:~$ paste alphabets.txt numbers.txt
A      1
B      2
C      3
D      4
E      5
F      6
G      7
H      8
I      9
J     10
K     11
L     12
M     13
N     14
O     15
P     16
Q     17
R     18
S     19
T     20
U     21
V     22
W     23
X     24
Y     25
Z     26
```

## 1) Explore some other commands like -E, + and ?

```
balamurugan@balamurugan-Lenovo-E41-25:~$ grep -e "B" -e "N" alphabets.txt
B
N
balamurugan@balamurugan-Lenovo-E41-25:~$ find /home -type f -name "*.txt" -exec ls {} +
/home/balamurugan/alphabets.txt
/home/balamurugan/bala.txt
/home/balamurugan/.cache/tracker3/files/first-index.txt
/home/balamurugan/.cache/tracker3/files/last-crawl.txt
/home/balamurugan/.cache/tracker3/files/locale-for-miner-apps.txt
/home/balamurugan/grepdemo.txt
/home/balamurugan/numbers.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/AlternateServices.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/cert_override.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/enumerate_devices.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/pkcs11.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/serviceworker.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/SiteSecurityServiceState.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/Telemetry.FailedProfileLocks.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692253006428.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692253308222.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692254390367.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692258076220.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692258392666.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692261635542.txt
/home/balamurugan/snap/firefox/common/.mozilla/firefox/eipo430o.default/weave/logs/error-sync-1692261662191.txt
balamurugan@balamurugan-Lenovo-E41-25:~$ ls *.???
alphabets.txt  bala.txt  grepdemo.txt  numbers.txt  week1.odt  'week 2.odt'
balamurugan@balamurugan-Lenovo-E41-25:~$
```

## 1) List those entries that are 5 letters long and starts with Y

```
balamurugan@balamurugan-Lenovo-E41-25:~$ cat grep.txt
Yemen
zebra
linux
unix
alpha
gamma
yacht
beta
balamurugan@balamurugan-Lenovo-E41-25:~$ grep "^Yy" grep.txt
Yemen
yacht
```

- 1) Use the same text file seddemo.txt
- 2) Try to print records from 6th to 12th line.

```
balamurugan@balamurugan-Lenovo-E41-25:~$ cat seddemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ankit Pania|electronics|98|Pass|8900
C003|Ankit Saraf|civil|32|Fail|2000
S004|Goutam kumar Kumar|chemical|77|Pass|7700
A005|Mani Chowdhari|electrical|23|Fail|2000
X006|Mohan Kumar|computers|67|Incomplete|0
W007|Sandeep|civil|2|Fail|0
A008|Yogesh|computers|91|Pass|8000
S009|Yojna chaudhury|electronics|38|Incomplete|1000
A010|Zubin|Computers|12|Fail|1500
C011|Mira Nair|electronics|66|Pass|7000
X012|Meera Banik|civil|76|Pass|6300
W013|Meeraa Roy|civil|41|Pass|4000
balamurugan@balamurugan-Lenovo-E41-25:~$ sed -n '6,12p' seddemo.txt
X006|Mohan Kumar|computers|67|Incomplete|0
W007|Sandeep|civil|2|Fail|0
A008|Yogesh|computers|91|Pass|8000
S009|Yojna chaudhury|electronics|38|Incomplete|1000
A010|Zubin|Computers|12|Fail|1500
C011|Mira Nair|electronics|66|Pass|7000
X012|Meera Banik|civil|76|Pass|6300
```

- 1) Use the same text file seddemo.txt
- 2) Try to replace or substitute name Ankit with Ashish



```
balamurugan@balamurugan-Lenovo-E41-25:~$ sed 's/Ankit/Ashish/g' seddemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ashish Pilonia|electronics|98|Pass|8900
C003|Ashish Saraf|civil|32|Fail|2000
S004|Goutam kumar Kumar|chemical|77|Pass|7700
A005|Mani Chowdhari|electrical|23|Fail|2000
X006|Mohan Kumar|computers|67|Incomplete|0
W007|Sandeep|civil|2|Fail|0
A008|Yogesh|computers|91|Pass|8000
S009|Yojna choudhury|electronics|38|Incomplete|1000
A010|Zubin|Computers|12|Fail|1500
C011|Mira Nair|electronics|66|Pass|7000
X012|Meera Banik|civil|76|Pass|6300
W013|Meeraa Roy|civil|41|Pass|4000
```