# MODULE 2

## ASSIGNMENT 1

1. How can you know what is the secondary command prompt set your system ?

   How can you change the secondary command prompt from the default to your username ?

2. How can you ensure that the mv command (used for renaming a file) always asks for permission before overwriting an existing destination file ?

   [ Hint : use alias command ]

1.

```
vboxuser@Ubuntu:~$ echo $PS2
>
vboxuser@Ubuntu:~$ ~/.bashr
bash: /home/vboxuser/.bashr: No such file or directory
vboxuser@Ubuntu:~$ nano ~/.bashrc
vboxuser@Ubuntu:~$ source ~/.bashrc    # If you edited ~/.bashrc
vboxuser@Ubuntu:~$ echo $PS2
\u:vboxuser
```

2.

```
PS2="\u:vboxuser"
alias mv='mv -i'
mvi() {
    /bin/mv -i "$@"
}

^G Help        ^O Write Out  ^W Where Is  ^K Cut      ^T Execute   ^C Location
^X Exit        ^R Read File  ^\ Replace   ^U Paste    ^J Justify   ^/ Go To Line
```

```
vboxuser@Ubuntu:~$ nano ~/.bashrc
vboxuser@Ubuntu:~$ source ~/.bashrc
vboxuser@Ubuntu:~$ mv results /home/vboxuser/Desktop
/bin/mv: invalid option -- '.'
Try '/bin/mv --help' for more information.
Overwrite 'results'? (y/n): y
Overwrite '/home/vboxuser/Desktop'? (y/n): y
```

# MODULE 2

## ASSIGNMENT 2

1) Create a new user account and home directory called "Duck"

2) Set the user account "Duck's" expirey 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.

1.

```
vboxuser@Ubuntu:~$ sudo useradd -m Duck
[sudo] password for vboxuser:
vboxuser@Ubuntu:~$ sudo passwd Duck
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a diction
ary word
Retype new password:
passwd: password updated successfully
```

2.

```
vboxuser@Ubuntu:~$ sudo chage -l Duck
Last password change                                    : Sep 22, 2023
Password expires                                        : never
Password inactive                                       : never
Account expires                                         : never
Minimum number of days between password change          : 0
Maximum number of days between password change          : 99999
Number of days of warning before password expires       : 7
vboxuser@Ubuntu:~$ sudo chage -E 2015-01-07 Duck
vboxuser@Ubuntu:~$ sudo chage -l Duck
Last password change                                    : Sep 22, 2023
Password expires                                        : never
Password inactive                                       : never
Account expires                                         : Jan 07, 2015
Minimum number of days between password change          : 0
Maximum number of days between password change          : 99999
Number of days of warning before password expires       : 7
```

3.

```
vboxuser@Ubuntu:~$ id -u Duck
1001
```

4.

```
vboxuser@Ubuntu:~$ df -h Duck
df: Duck: No such file or directory
vboxuser@Ubuntu:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs           352M  1.5M  351M   1% /run
/dev/sda3        24G   14G  9.6G  59% /
tmpfs           1.8G     0  1.8G   0% /dev/shm
tmpfs           5.0M  4.0K  5.0M   1% /run/lock
/dev/sda2       512M  6.1M  506M   2% /boot/efi
tmpfs           352M  112K  352M   1% /run/user/1000
/dev/sr0         52M   52M     0 100% /media/vboxuser/VBox_GAs_7.0.10
```

```
vboxuser@Ubuntu:~$ du -h
4.0K    ./Public
8.0K    ./.cache/mesa_shader_cache/69
12K     ./.cache/mesa_shader_cache/a3
8.0K    ./.cache/mesa_shader_cache/c9
8.0K    ./.cache/mesa_shader_cache/5e
8.0K    ./.cache/mesa_shader_cache/1a
12K     ./.cache/mesa_shader_cache/80
8.0K    ./.cache/mesa_shader_cache/ef
16K     ./.cache/mesa_shader_cache/45
8.0K    ./.cache/mesa_shader_cache/0a
8.0K    ./.cache/mesa_shader_cache/0f
12K     ./.cache/mesa_shader_cache/81
8.0K    ./.cache/mesa_shader_cache/06
12K     ./.cache/mesa_shader_cache/d6
12K     ./.cache/mesa_shader_cache/90
8.0K    ./.cache/mesa_shader_cache/95
8.0K    ./.cache/mesa_shader_cache/6b
8.0K    ./.cache/mesa_shader_cache/40
8.0K    ./.cache/mesa_shader_cache/9b
```

5.

```
vboxuser@Ubuntu:~$ du -ch *.txt
4.0K    error_log.txt
0       excercise.txt
0       exercise.txt
0       test_link.txt
4.0K    total
vboxuser@Ubuntu:~$
```

6.

```
vboxuser@Ubuntu:~$ sudo userdel -r Duck
userdel: Duck mail spool (/var/mail/Duck) not found
vboxuser@Ubuntu:~$ id Duck
id: 'Duck': no such user
vboxuser@Ubuntu:~$
```

# MODULE 2

## ASSIGNMENT 3

| Assignement For Topic | Questions |
|---|---|
| **Head** | |
| Assignment i | Try what is shown on the video |
| Assignment ii | 1. Try to get the first 10 lines from /etc/passwd<br><br>2. try to get just the first 3 lines from /etc/passwd |
| **Tail** | |
| Assignment i | Try what is shown on the video |
| Assignment ii | 1. Try to get the Last 10 lines from /etc/passwd<br><br>2. Try to get just the Last 3 lines from /etc/passwd<br><br>3. Try to follow the log file /var/log/auth.log |
| **Sort** | |
| Assignment i | Try what is shown on the video |
| Assignment ii | 1. Try to sort the file /etc/passwd in assending order.<br><br>2. Try to sort the file /etc/passwd in decending order.<br><br>3. Try to sort the file /etc/passwd in assending order based on the 3$^{rd}$ column.<br><br>4. Try to sort the file /etc/passwd in assending order based on the 3$^{rd}$ column and ask sort to look at the thrid column as a whole number. |
| **Cut** | |
| Assignment i | Try what is shown on the video |
| Assignment ii | 1. Try to cut just the usernames from the file /etc/passwd |
| **Paste** | |
| Assignment i | Try what is shown on the video |
| Assignment ii | 1. Create a file alphabets.txt and key in all the 26 alphabets each one in a new line.<br>2. Create a file number.txt and key in 1 to 26 each one in a new line.<br>3. Try to paste those two files, to see which letter appears at what number.<br>*Paste alphabets.txt numbers.txt* |

1. Head
   Assignment i)

```
vboxuser@Ubuntu:~$ head numbers.txt
1
2
22
2
4
6
7
8
99
10
```

Assignment ii)

```
vboxuser@Ubuntu:~$ head -n10 /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
```

```
vboxuser@Ubuntu:~$ 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
```

2. Tail
   Assignment i)

```
vboxuser@Ubuntu:~$ gedit numbers.txt
vboxuser@Ubuntu:~$ tail numbers.txt
22
2
4
6
7
8
99
10
11
12
```

```
vboxuser@Ubuntu:~$ tail -n5 numbers.txt
8
99
10
11
12
```

```
vboxuser@Ubuntu:~$ sudo tail -f  /var/log/auth.log
[sudo] password for vboxuser:
Sep 22 22:30:03 Ubuntu CRON[4881]: pam_unix(cron:session): session closed for us
er root
Sep 23 08:14:36 Ubuntu gdm-password]: gkr-pam: unlocked login keyring
Sep 23 08:17:01 Ubuntu CRON[5010]: pam_unix(cron:session): session opened for us
er root(uid=0) by (uid=0)
Sep 23 08:17:01 Ubuntu CRON[5010]: pam_unix(cron:session): session closed for us
er root
Sep 23 08:30:01 Ubuntu CRON[5023]: pam_unix(cron:session): session opened for us
er root(uid=0) by (uid=0)
Sep 23 08:30:03 Ubuntu CRON[5023]: pam_unix(cron:session): session closed for us
er root
Sep 23 08:32:46 Ubuntu gdm-password]: gkr-pam: unlocked login keyring
Sep 23 08:47:23 Ubuntu gdm-password]: gkr-pam: unlocked login keyring
Sep 23 08:57:38 Ubuntu sudo: vboxuser : TTY=pts/0 ; PWD=/home/vboxuser ; USER=ro
ot ; COMMAND=/usr/bin/tail -f /var/log/auth.log
Sep 23 08:57:38 Ubuntu sudo: pam_unix(sudo:session): session opened for user roo
t(uid=0) by (uid=1000)
Sep 23 08:58:40 Ubuntu su: (to vboxuser) vboxuser on pts/2
```

Assignment ii)

```
vboxuser@Ubuntu:~$ tail -n10 /etc/passwd
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/no
login
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
vboxuser:x:1000:1000:vboxuser,,,:/home/vboxuser:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
```

```
vboxuser@Ubuntu:~$ tail -n3 /etc/passwd
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
vboxuser:x:1000:1000:vboxuser,,,:/home/vboxuser:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
```

```
vboxuser@Ubuntu:~$ sudo tail -f  /var/log/auth.log
[sudo] password for vboxuser:
Sep 23 08:58:40 Ubuntu su: (to vboxuser) vboxuser on pts/2
Sep 23 08:58:40 Ubuntu su: pam_unix(su:session): session opened for user vboxuse
r(uid=1000) by (uid=1000)
Sep 23 08:59:14 Ubuntu sudo: pam_unix(sudo:session): session closed for user roo
t
Sep 23 09:17:03 Ubuntu CRON[5592]: pam_unix(cron:session): session opened for us
er root(uid=0) by (uid=0)
Sep 23 09:17:03 Ubuntu CRON[5592]: pam_unix(cron:session): session closed for us
er root
Sep 23 09:22:18 Ubuntu gdm-password]: gkr-pam: unlocked login keyring
Sep 23 09:30:03 Ubuntu CRON[5713]: pam_unix(cron:session): session opened for us
er root(uid=0) by (uid=0)
Sep 23 09:30:03 Ubuntu CRON[5713]: pam_unix(cron:session): session closed for us
er root
```

3. Sort
   Assignment i)

```
vboxuser@Ubuntu:~$ sort numbers.txt
1
10
11
12
2
2
22
4
6
7
8
99
```

```
vboxuser@Ubuntu:~$ sort -n  numbers.txt
1
2
2
4
6
7
8
10
11
12
22
99
```

```
vboxuser@Ubuntu:~$ sort -rn   numbers.txt
99
22
12
11
10
8
7
6
4
2
2
1
```

```
vboxuser@Ubuntu:~$ sort -run   numbers.txt
99
22
12
11
10
8
7
6
4
2
1
```

```
vboxuser@Ubuntu:~$ gedit marks.txt
vboxuser@Ubuntu:~$ sort marks.txt -t " " -k2
40 Avir
100 Bala
60 Pr@deep
90 S0mu
85 vij@ay
```

Assignment ii)

```
vboxuser@Ubuntu:~$ 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/nolo
gin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologi
n
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/us
r/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
```

```
vboxuser@Ubuntu:~$ sort -rn /etc/passwd
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
vboxuser:x:1000:1000:vboxuser,,,:/home/vboxuser:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
uuidd:x:107:116::/run/uuidd:/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:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
tcpdump:x:109:118::/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/no
login
```

```
vboxuser@Ubuntu:~$ sort -rn /etc/passwd -t " " -k2
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
vboxuser:x:1000:1000:vboxuser,,,:/home/vboxuser:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
uuidd:x:107:116::/run/uuidd:/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:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
tcpdump:x:109:118::/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/no
login
```

```
vboxuser@Ubuntu:~$ sort -rn /etc/passwd -t " " -n -k2
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
vboxuser:x:1000:1000:vboxuser,,,:/home/vboxuser:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
uuidd:x:107:116::/run/uuidd:/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:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
tcpdump:x:109:118::/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/no
login
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nolog
in
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
```

4. Cut

Assignment i)

```
vboxuser@Ubuntu:~$ cut marks.txt -d " " -f2
Bala
Pr@deep
vij@ay
Avir
S0mu
```

Assignment ii)

```
vboxuser@Ubuntu:~$ cut /etc/passwd -d " " -f1
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
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
```

5. Paste

Assignment i)

```
vboxuser@Ubuntu:~$ paste numbers.txt marks.txt
1       100 Bala
2       60 Pr@deep
22      85 vij@ay
2       40 Avir
4       90 S0mu
6
7
8
99
10
11
12
vboxuser@Ubuntu:~$ paste numbers.txt marks.txt > conctenatedfile.txt
vboxuser@Ubuntu:~$ cat concatenatedfile.txt
cat: concatenatedfile.txt: No such file or directory
vboxuser@Ubuntu:~$ cat conctenatedfile.txt
1       100 Bala
2       60 Pr@deep
22      85 vij@ay
2       40 Avir
4       90 S0mu
6
7
8
99
10
11
12
vboxuser@Ubuntu:~$ paste -s numbers.txt
1       2       22      2       4       6       7       8       99      10      11
        12
```

Assignment ii)

```
vboxuser@Ubuntu:~$ gedit alphabets.txt
vboxuser@Ubuntu:~$ gedit number.txt
vboxuser@Ubuntu:~$ paste alphabets.txt number.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
```

# MODULE 2

## ASSIGNMENT 4

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

    1. **grep -E Command:**

```
vboxuser@Ubuntu:~$ grep -E 'C003|Ankit Saraf' grepdemo.txt
C003|Ankit Saraf|civil|32|Fail|2000
vboxuser@Ubuntu:~$ grep -E 'civil|32' grepdemo.txt
C003|Ankit Saraf|civil|32|Fail|2000
W007|Sandeep|civil|2|Fail|0
X012|Meera Banik|civil|76|Pass|6300
W013|Meeraa Roy|civil 41|Pass|4000
vboxuser@Ubuntu:~$ grep -E 'computers|12' grepdemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
X006|Mohan|computers|67|Incomplete|0
A008|Yogesh|computers|91|Pass|8000
A010|Zubin|Computers|12|Fail|1500
X012|Meera Banik|civil|76|Pass|6300
vboxuser@Ubuntu:~$ grep -E '[1-9][0-9]{2,}' grepdemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ankit Pilania|electronics|98|Pass|8900
C003|Ankit Saraf|civil|32|Fail|2000
S004|Goutam dhar choudhuree|chemical|77|Pass|7700
A005|Mani Chowdhari|electrical|23|Fail|2000
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
```

```
vboxuser@Ubuntu:~$ grep -E '[1-9][0-9]{3,}' grepdemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ankit Pilania|electronics|98|Pass|8900
C003|Ankit Saraf|civil|32|Fail|2000
S004|Goutam dhar choudhuree|chemical|77|Pass|7700
A005|Mani Chowdhari|electrical|23|Fail|2000
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
```

```
vboxuser@Ubuntu:~$ grep -E '[3-9][0-9]{2,}' grepdemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ankit Pilania|electronics|98|Pass|8900
S004|Goutam dhar choudhuree|chemical|77|Pass|7700
A008|Yogesh|computers|91|Pass|8000
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
```

2.  +

```
vboxuser@Ubuntu:~$ chmod +x grepdemo.txt
vboxuser@Ubuntu:~$ stat /home/vboxuser/grepdemo.txt
  File: /home/vboxuser/grepdemo.txt
  Size: 521           Blocks: 8          IO Block: 4096    regular file
Device: 803h/2051d      Inode: 833251       Links: 1
Access: (0775/-rwxrwxr-x)  Uid: ( 1000/vboxuser)   Gid: ( 1000/vboxuser)
Access: 2023-09-23 16:44:46.167901311 +0530
Modify: 2023-09-23 16:43:43.407602388 +0530
Change: 2023-09-23 17:06:45.966183715 +0530
 Birth: 2023-09-23 16:43:43.407602388 +0530
vboxuser@Ubuntu:~$ chmod +r grepdemo.txt
```

```
vboxuser@Ubuntu:~$ chmod +r grepdemo.txt
vboxuser@Ubuntu:~$ stat /home/vboxuser/grepdemo.txt
  File: /home/vboxuser/grepdemo.txt
  Size: 521           Blocks: 8          IO Block: 4096    regular file
Device: 803h/2051d      Inode: 833251       Links: 1
Access: (0775/-rwxrwxr-x)  Uid: ( 1000/vboxuser)   Gid: ( 1000/vboxuser)
Access: 2023-09-23 16:44:46.167901311 +0530
Modify: 2023-09-23 16:43:43.407602388 +0530
Change: 2023-09-23 17:12:20.388203589 +0530
 Birth: 2023-09-23 16:43:43.407602388 +0530
```

3.  ?

```
vboxuser@Ubuntu:~$ ls test?
test3
```

# MODULE 2

## ASSIGNMENT 5

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

```
vboxuser@Ubuntu:~$ cut grepdemo.txt -d "|" -f2 > names.txt
vboxuser@Ubuntu:~$ cat names.txt
Anirban Roy Choudhury
Ankit Pilania
Ankit Saraf
Goutam dhar choudhuree
Mani Chowdhari
Mohan
Sandeep
Yogesh
Yojna chaudhury
Zubin
Mira Nair
Meera Banik
Meeraa Roy
```

```
vboxuser@Ubuntu:~$ grep -E '\bY' names.txt
Yogesh
Yojna chaudhury
vboxuser@Ubuntu:~$ grep -i -E '^Y....' grepdemo.txt
vboxuser@Ubuntu:~$ grep -E '\bY[a-zA-Z]{4}' names.txt
Yogesh
Yojna chaudhury
vboxuser@Ubuntu:~$ grep -E '\bY....' names.txt
Yogesh
Yojna chaudhury
```

# MODULE 2

## ASSIGNMENT 6

1) Use the same text file seddemo.txt

2) Try to print records from 6th to 12th line.

2.

```
vboxuser@Ubuntu:~$ 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
```

# MODULE 2

## ASSIGNMENT 7

1) Use the same text file seddemo.txt

2) Try to replace or substitute name Ankit with Ashish

```
vboxuser@Ubuntu:~$ sed 's/[aA]nkit/Ashish/g' seddemo.txt
A001|Anirban Roy Choudhury|computers|95|Pass|8000
A002|Ashish Pilania|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 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
```