1. To determine login shell.

```
rakshit@RG:~$ echo $0
bash
rakshit@RG:~$ echo $SHELL
/bin/bash
rakshit@RG:~$
```

2. To find all available shells in a system type.

```
rakshit@RG:~$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/usr/bin/sh
/bin/dash
/usr/bin/dash
rakshit@RG:~S
```

3. To keep track of every registered user that has access to a system.

```
rakshitanc:-S cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1::daemon:/usr/sbin/loogin
bin:x:2:2:bin:/bin:/usr/sbin/loogin
sys:x:3:3:sys:/dev:/usr/sbin/loogin
sys:x:3:3:sys:/dev:/usr/sbin/loogin
sys:x:3:3:sys:/dev:/usr/sbin/loogin
sys:x:3:3:sys:/dev:/usr/sbin/loogin
sys:x:3:dev:/usr/sbin/loogin
sys:x:3:dev:/usr/sbin/loogin
sys:x:3:dev:/usr/sbin/loogin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
news:x:9:news:/var/spool/lpd:/usr/sbin/nologin
mex:x:9:news:/var/spool/lucp:/usr/sbin/nologin
news:x:9:news:/var/spool/lucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
mex:x:3:3:3:3:www-data:/var/www:/usr/sbin/nologin
sucp:x:3:3:3:si3:www-data:/var/www:/usr/sbin/nologin
list:x:38:38:Malling list Manager:/var/list:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
systend-network:x:100:102:systend Network Management,,;/run/systemd:/usr/sbin/nologin
systend-resolve:x:101:103:systend Resolver,,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Time Synchronization,,;/run/systemd:/usr/sbin/nologin
systend-timesync:x:103:106:systend Time Synchronization,,;/run/systemd:/usr/sbin/nologin
systend-timesync:x:103:106:systend Time Synchronization,,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/run/systend:/usr/sbin/nologin
systend-timesync:x:103:106:systend Synchronization,;/var/lib/macr/usr/sbin/nologin
synchronization
          whoopstelk:17:124:./hohektsteht./pth/fatse
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
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
        saned:x:121:128::/var/ltb/saned:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
rakshit:x:1000:1000:Rakshit,,,:/home/rakshit:/bin/bash
```

4. Use of Date command to see the date, also use of who and date command simultaneously and fetch this data in a file and use more command to see that data.

5. Use of sed command to swap one word with another in each line of a file.

```
rakshit@RG:~/sample$ cat file.txt
I'm from miet !!
miet is college !!
miet is in Jammu !!
rakshit@RG:~/sample$ sed "s/miet/Model Institute of Engineering Technology/g" file.txt
I'm from Model Institute of Engineering Technology !!
Model Institute of Engineering Technology is college !!
Model Institute of Engineering Technology is in Jammu !!
rakshit@RG:~/sample$
```