1. To determine login shell.

```
ayushmaan@ASJ:~/Music$ echo $0
bash
```

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

```
ayushmaan@ASJ:~/Music$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/usr/bin/sh
/usr/bin/dash
/usr/bin/dash
```

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

```
ypubmeannMAC3: /maxi-S cat /etc/passwd
openon::1::idaenon:/usr/abin/ly/ssh
deenon::1::idaenon:/usr/abin/ly/ssh/
deenon::1::idaenon:/usr/abin/ly/ssh/
deenon::1::idaenon:/usr/abin/loogtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x3:3:sys:/deur/spool/lyde/.usr/sbl/pinologtn
by3:x4:3:dibackup:/var/backups:/vsr/sbl/pinologtn
by3:x4:3:dibackup:/var/backups:/vsr/sbl/pinologtn
by3:x4:3:dibackup:/var/backups:/vsr/sbl/pinologtn
by3:x4:3:dibackup:/var/backups:/vsr/sbl/pinologtn
by3:x4:3:dibackup:/vsr/backups:/vsr/sbl/pinologtn
by3:x4:di:/coats.bug-leoporting/system (admin):/vsr/lb/gnats:/usr/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system (admin):/vsr/lb/gnats:/usr/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system (admin):/vsr/lb/gnats:/usr/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system (admin):/vsr/lb/gnats:/usr/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system desolver.,:/run/systemd:/usr/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system/sbln/nologtn
by3:x4:di:/coats.bug-leoporting/system/sbln/nologtn
by3:di:/coats.bug-leoporting/system/sbln/nologtn
by3:di:/coats.bug-leoporting/sbln/nologtn
by3:
```

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

```
ayushmaan@ASJ:~/Music$ date
Thursday 06 October 2022 02:58:32 PM IST
ayushmaan@ASJ:~/Music$ date "+Date: %D%nTime: %T"
Date: 10/06/22
Time: 14:59:23
ayushmaan@ASJ:~/Music$ date | who | cat >> a.txt
ayushmaan@ASJ:~/Music$ more a.txt
Ayushmaan Singh Jamwal
Ayushmaan ASJ
Ayushmaan CSE
ayushmaan tty2
2022-10-06 14:09 (tty2)
ayushmaan@ASJ:~/Music$
```

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

```
ayushmaan@ASJ:~/Music$ nano a.txt
ayushmaan@ASJ:~/Music$ cat a.txt
My name is Ayushmaan Singh Jamwal
Roll no. 2021a1r052
Section A1
ayushmaan@ASJ:~/Music$ sed -e "s/\([^ ]*\) *\([^ ]*\)/\2 \1 /g" a.txt
name My is Ayushmaan Singh Jamwal
no. Roll 2021a1r052
A1 Section
ayushmaan@ASJ:~/Music$
```