1. To determine login shell.

```
smarty@Raghavs-MacBook-Air ~ % echo $0
-zsh
smarty@Raghavs-MacBook-Air ~ % $
```

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

```
smarty@Raghavs-MacBook-Air ~ % cat /etc/shells
# List of acceptable shells for chpass(1).
# Ftpd will not allow users to connect who are not using
# one of these shells.

/bin/bash
/bin/csh
/bin/dash
/bin/ksh
/bin/sh
/bin/tcsh
/bin/zsh
smarty@Raghavs-MacBook-Air ~ %
```

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

```
smarty@Raghavs-MacBook-Air ~ % cat /etc/passwd
##
# User Database
#
# Note that this file is consulted directly only when the system is running
# in single-user mode.  At other times this information is provided by
# Open Directory.
#
# See the opendirectoryd(8) man page for additional information about
# Open Directory.
##
nobody:*:-2:-2:Unprivileged User:/var/empty:/usr/bin/false
root:*:0:0:System Administrator:/var/root:/bin/sh
```

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.

```
smarty@Raghavs-MacBook-Air ~ % date
Sat Oct  8 23:28:48 IST 2022
smarty@Raghavs-MacBook-Air ~ % date "+Year:%Y %nMonth:%m %nDay:%d"
Year:2022
Month:10
Day:08
smarty@Raghavs-MacBook-Air ~ % Date "+Date:%D %nTime:%T"
Date:10/08/22
Time:23:30:25
smarty@Raghavs-MacBook-Air ~ %
```

```
smarty@Raghavs-MacBook-Air ~ % date | who | cat>>sample.txt
smarty@Raghavs-MacBook-Air ~ % more sample.txt
smarty    console  Oct  8 18:14
smarty    ttys000  Oct  8 23:17
sample.txt (END)
```

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

```
   UW PICO 5.09                        File: ab.txt

Raghav Sharma Raghav
Raghav Miet
Raghav Raghav Raghav
```

```
smarty@Raghavs-MacBook-Air ~ % sed 's/Raghav/Smarty/g' ab.txt
Smarty Sharma Smarty
Smarty Miet
Smarty Smarty Smarty
smarty@Raghavs-MacBook-Air ~ %
```