

Q. Write a program to explain PS command ?Ans.Ps displays active processes
|Syntax:ps [options] [pid] [ppid] [command] [option]

```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps
  PID TTY          TIME CMD
 1446 pts/0    00:00:01 bash
 1972 pts/0    00:00:00 ps
jayesh@jayesh-VirtualBox:~$

```

basic ps command (ps -l) Displays all processes on a terminal, with the exception of group leaders.Ps -a

```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -a
  PID TTY          TIME CMD
 1974 pts/0    00:00:00 ps
jayesh@jayesh-VirtualBox:~$

```

2) Displays scheduler data.Ps -c

```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -c
  PID CLS PRI TTY          TIME CMD
 1446 TS  19 pts/0    00:00:01 bash
 1976 TS  19 pts/0    00:00:00 ps
jayesh@jayesh-VirtualBox:~$

```

3) Displays all processes with the exception of session leaders.Ps -d

```
jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -e
  PID TTY          TIME CMD
    1 ?           00:00:01 init
    2 ?           00:00:00 kthreadd
    3 ?           00:00:01 ksoftirqd/0
    5 ?           00:00:00 kworker/u:0
    6 ?           00:00:00 migration/0
    7 ?           00:00:00 cpuset
    8 ?           00:00:00 khelper
```

4) Displays all processes.Ps -e

```
jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -e
  PID TTY          TIME CMD
    1 ?           00:00:01 init
    2 ?           00:00:00 kthreadd
    3 ?           00:00:01 ksoftirqd/0
    5 ?           00:00:00 kworker/u:0
    6 ?           00:00:00 migration/0
    7 ?           00:00:00 cpuset
    8 ?           00:00:00 khelper
```

5) Displays a full listing.Ps -f

```
jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -f
UID          PID  PPID  C  STIME TTY          TIME CMD
jayesh      1446  1440  0  11:30 pts/0        00:00:01 bash
jayesh      2020  1446  0  14:36 pts/0        00:00:00 ps -f
jayesh@jayesh-VirtualBox:~$
```

6) Displays the process group ID and session ID.Ps -j

```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -j
  PID  PGID   SID TTY          TIME CMD
 1446  1446   1446 pts/0      00:00:01 bash
 2024  2024   1446 pts/0      00:00:00 ps
jayesh@jayesh-VirtualBox:~$
    
```

7) Displays a long listingPs -l

```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ ps -l
F S  UID  PID  PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
0 S  1000 1446  1440  0  80   0 -  1735 wait  pts/0      00:00:01 bash
0 R  1000 2030  1446  0  80   0 -  1123 -    pts/0      00:00:00 ps
jayesh@jayesh-VirtualBox:~$
    
```

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