

# Seif El-Din Mohamed Aboelhassan Hendawy

## Lab 1

Using sed utility

1- Display the lines that contain the word "lp" in /etc/passwd file.

Answer:

```
sed -n '/lp/p' /etc/passwd
```

```
[seif@localhost ~]$ sed -n '/lp/p' /etc/passwd
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
```

2- Display /etc/passwd file except the third line.

Answer:

```
sed '3!p' /etc/passwd
```

```
[seif@localhost ~]$ sed '3!p' /etc/passwd
root:x:0:0:root:/root:/bin/bash
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
```

3- Display /etc/passwd file except the last line.

Answer:

```
sed '$!p' /etc/passwd
```

```
[seif@localhost ~]$ sed '$!p' /etc/passwd
root:x:0:0:root:/root:/bin/bash
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
```

4- Display /etc/passwd file except the lines that contain the word “lp”.

Answer:

```
sed '/lp/d' /etc/passwd
```

```
[seif@localhost ~]$ sed '/lp/d' /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
```

5- Substitute all the words that contain “lp” with “mylp” in /etc/passwd file.

Answer:

```
sed -n 's/lp/mylp/gp' /etc/passwd
```

Before

```
[seif@localhost ~]$ sed -n '/lp/p' /etc/passwd
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
```

After

```
[seif@localhost ~]$ sed -n 's/lp/mylp/gp' /etc/passwd
mylp:x:4:7:mylp:/var/spool/mylpd:/sbin/nologin
```