**Using sed utility**

1. Display the lines that contain the word “lp” in /etc/passwd file.

Command : sed -n '/lp/p' /etc/passwd

1. Display /etc/passwd file except the third line.

Command : sed '3d' /etc/passwd

1. Display /etc/passwd file except the last line.

Command : sed '$d' /etc/passwd

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

Command : sed '/lp/d' /etc/passwd

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

Command : sed 's/lp/mylp/g' /etc/passwd

**Using awk utility**

1. Print full name (comment) of all users in the system.

Command : awk -F':' '{print $5}' /etc/passwd

1. Print login, full name (comment) and home directory of all users.( Print each line preceded by a line number)

Command : awk -F':' '{print NR, $1, $5, $6}' /etc/passwd

1. Print login, uid and full name (comment) of those uid is greater than 500

Command : awk -F':' '$3 > 500 {print $1, $3, $5}' /etc/passwd

1. Print login, uid and full name (comment) of those uid is exactly 500

Command : awk -F':' '$3 == 500 {print $1, $3, $5}' /etc/passwd

1. Print line from 5 to 15 from /etc/passwd

Command : awk -F':' 'NR>=5 && NR<=15' /etc/passwd

1. Change lp to mylp

Command : awk -F':' '{gsub(/lp/, "mylp")}' /etc/passwd

1. Print all information about greatest uid.

Command : awk -F':' '$3 > max {max=$3; user=$0} END {print user}' /etc/passwd

8- Get the sum of all accounts id’s.

Command : awk -F':' '{sum += $3} END {print "Sum of UIDs:", sum}' /etc/passwd