## grep command

- 1) grep stands for Global Regular Expression Print
- This command is used to find particular pattern in a file or multiple files
- 3) syntax for grep command is :

grep <option> <pattern> file\_name

or if we are using grep command in combination with another command then syntax is

command | grep <option> <pattern or search string>

## Example 1: find root string in /etc/passwd file

Ans : grep root /etc/passwd

or

cat -n /etc/passwd | grep root

## 1) -i option

by default grep command search pattern by considering case so if we want to search a pattern by ignoring case then we need to use -i option.

-i means ignore the case

Example : find Root by ignoring case

Ans : cat -n /etc/passwd | grep -i Root

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2) -n option :
If we want to print serached pattern with line number
then we need to use -n number option

Example
grep -n root /etc/passwd
or
cat /etc/passwd | grep -n root
```

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3) -c option : To Display the number of Occurrences
-c option is used to count number of lines that given pattern is present

Example
grep -c root /etc/passwd
grep -c usr /etc/passwd
```

- 4) -o option: To print only matched Pattern instead of total line-> o stands occurance-> If we want to find occurance of given pattern then we need to use -o optiongrep -o usr /etc/passwd
- 5) -w option : To search for exact word in the file

  To match exact word then we need to use -w option

  grep roo /etc/passwd -> without -w option

  grep -w roo /etc/passwd -> with -w option

  grep -w root /etc/passwd -> with -w option

```
6) A option , B option and C option
-> Display before, after and surrounding lines including search patter

A -> After B -> Before

C -> After + Before

Example : print 2 lines after serached pattern root

Ans: grep -A2 root /etc/passwd

Ans: grep -nwA2 root /etc/passwd

Ans: grep -niwA2 root /etc/passwd

Example : Print 2 lines before searched pattern (use of -B options)
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Example : Print 2 lines before searched pattern (use of -B options)

grep -B2 root /etc/passwd

grep -nwB2 root /etc/passwd

grep -niwB2 root /etc/passwd

Example print 2 lines after and before searched pattern(use of -C option)

grep -C2 root /etc/passwd

grep -nwC2 root /etc/passwd

grep -niwC2 root /etc/passwd
```

## 7) -v option: -> -v means inverted Suppose my requirement is I want to display the lines which don't have root word grep -v root /etc/passwd or cat -n /etc/passwd | grep -v root

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8) -l option
-l option is used to display only files names in which pattern is exist
grep -l root *.txt
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Assignment
Q. Save all the running process information in file
Ans: ps-ef > Result.txt

Q. Display all lines which contains lib word
Ans: grep -n lib Result.txt

Q. Display all lines which does not contains lib
Ans: grep -v lib Result.txt

Q. Count all lines where we are getting lib
Ans: grep -c lib Result.txt

Q. Display all lines which conatins lib and preceding with line number
Ans: grep -n lib Result.txt

Q. Display lines which does not contains lib but display only top 2 lines
Ans: grep -v lib Result.txt | head -2
```