1. To give user permission

* ‘+’ for adding permission
* ‘-‘ for denying permission

Permissions also includes single letter which denotes

**u** : user; **g**: group; **o**: other; **a**: all; **r**: read; **w**: write; **x**: execute.

1. **System Calls**

| **System calls** | **Explanation** |
| --- | --- |
| Fork() | To create a new process |
| Exec() | For execution of a new program |
| Wait() | To make the process to wait |
| Exit() | Exit/terminate the process |
| Getpid() | To find the unique process id |
| Getppid() | To find the parent process id |
| Nice() | To bias the currently running process property |

1. **How can you find out how much memory Linux is using?**

free - m

vmstat

top

htop

1. **Write a command that will look for files with an extension "c", and has the occurrence of the string "apple" in it**

Find ./ -name "\*.c" | xargs grep –i "apple"

1. **Write a command that will display all .txt files, including its individual permission.**

ls -al \*.txt

1. **-look for all files in the current and subsequent directories with an extension c,v  
   -strip the,v from the result (you can use sed command)  
   -use the result and use a grep command to search for all occurrences of the word ORANGE in the files.**

Find ./ -name "\*.c,v" | sed 's/,v//g' | xargs grep "ORANGE"

1. **What is the command to calculate the size of a folder?**

**du –sh folder1.**

1. **Explain how you can find a file using Terminal?**

**find . –name "process.txt"**

1. **You wish to print a file ‘draft’ with 60 lines on a page. What command would you use?**

**The command used : pr -l60 draft**

* The default page length when using pr is 66 lines.
* The -l option specifies a different length.
* **Q:11 How to find files larger than 10MB in size in /usr directory ?**  
  Ans: # find /usr -size +10M
* **Q:12 How to find files in the /home directory that were modified more than 120 days ago ?**  
  Ans: # find /home -mtime +l20
* **Q:13 How to find files in the /var directory that have not been accessed in the last 90 days ?**  
  Ans: # find /var -atime -90
* **Q:14 Search for core files in the entire directory tree and delete them as found without prompting for confirmation**  
  Ans: # find / -name core -exec rm {} \;
* **Given a file, replace all occurrence of word "ABC" with "DEF" from 5th line till end in only those lines that contains word "MNO"**
* sed –n '5,$p' file1|sed '/MNO/s/ABC/DEF/
* **11: How will you find the 99th line of a file using only tail and head command?**
* tail +99 file1|head -1
* **12: Print the 10th line without using tail and head command.**
* sed –n '10p' file1
* **16: How can you find out how long the system has been running?**
* We can find this by using the command "uptime"
* **30: Given a file find the count of lines containing the word "ABC".**
* grep –c "ABC" file1
* **32: How will you print the login names of all users on a system?**
* /etc/shadow file has all the users listed.
* awk –F ':' '{print $1} /etc/shadow'|uniq -u

**38: How do we delete all blank lines in a file?**

sed '^ [(backslash)011(backslash)040]\*$/d' file1

**How will I insert a line "ABCDEF" at every 100th line of a file?**

sed '100i\ABCDEF' file1

**Write a command sequence to find all the files modified in less than 2 days and print the record count of each.**

find . –mtime -2 –exec wc –l {} \;

**How to remove all spaces from the string ?**

echo $string|tr -d " "

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