Exercise#3

1. Using *man* describe the following and explicitly describe its uses with examples.

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| Command ls | Explanation with 2 important options and their usage  -a and -l,  -a option is used for all files and folders, starting with dot(.). Files names beginning with . are hidden files.  -l option is used for longlisting which means we can permissions, size owner, group, and time stamp of file or directory.  ls -a ls -l  We can combine both options as ls -la |
| The above screenshot ls -l shows details about files but no hidden files.  However, the screenshot for ls -a shows the hidden files for example .bash\_history. | |
| touch | Update the file time-stamps  -a used to change only the access time  -m used change only the modification time  touch -a  touch -m  We can combine both options as  touch -am |
| A screenshot of a computer  Description automatically generated | |
| A screenshot of a computer  Description automatically generated | |
| sort | Sort lines of the text files  -n is used for numeric sort  i.e compare according to string numerical value  -r is used to reverse the result of comparison .  sort -n file.txt  sort -r file.txt  sort -nr file.txt |
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| mv | mv move(rename) files  -f, --force is used for not prompting before overwriting.  -i—interactive is used for prompting before overwrite.  mv -f  mv-i |
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| cp | Copy files and directories  -attributes-only is used for copying attributes and not file data  -v explains what is being done  Cp -a file1.txt file2.txt  Cp -v file.txt file2.txt |
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| less | Less is opposite of more.  It displays all the files of a directory.  J Like J it continues to scroll till end of line.  R repaints the screen.  Less l  Less R |
| A screenshot of a computer  Description automatically generatedA screenshot of a computer  Description automatically generatedA screenshot of a computer  Description automatically generated | |
| more | File persual filter for CRT viewing.  -f count logical lines rather than screen lines.  -s sqeee multiple blank line into one. fA screenshot of a computer  Description automatically generatedA screenshot of a computer  Description automatically generatedA screenshot of a computer  Description automatically generated  More -f  More -s |
|  | |
| head |  |
|  | |
| tail |  |
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1. Create folders cpfd/cpfd1/cpdf2 and then create a file <yourfirstname> inside the cpfd2 (without changing current working directory). Verify using listing command.
2. Copy this file to your home folder (using relative path). Verify using listing command.
3. Move file from cpfd2 to cpfd using absolute path. Verify using listing command.
4. What is SUID and how does it impact the usage of passwd?
5. Describe the sticky bit and its usage.
6. You have a classuser in virtualbox. Change the owner of file permfile to classuer.
7. Use the command *chmod 1644 permfile*
8. Show and explain the new permission of permfile.
9. Try to delete the permfile. What happened and why!