

1. List all the files and directories in your user directory
2. Observe the permission for each file and directories.
3. For Directory give the following permission using **chmod** cmd

**a. VP Sales**

- i. User – rwx
- ii. Group – r-x
- iii. Others – r- -

**b. People**

- i. User – r - -
- ii. Group – r- -
- iii. Others – r- -

**c. Sales Rep**

- i. User – r - -
- ii. Group – - - -
- iii. Others – r- -

4. For Directory give the following permission using **chmod** cmd using Numeric values

**a. Product Lead**

- i. User – -w-
- ii. Group – rwx
- iii. Others – rwx

**b. Senior Developer**

- i. User – rwx
- ii. Group – rw-
- iii. Others – --x

**c. Tech Lead**

- i. User – r - x
- ii. Group – r- x
- iii. Others – rwx

5. For the following files change permissions using **chmod** cmd

a. abc1-xyz

- i. User – r - x
- ii. Group – r- x
- iii. Others – r-x

b. abc2-xyz

- i. User – rwx
- ii. Group – rwx
- iii. Others – rwx

c. abc3-xyz

- i. User – - - -
- ii. Group – - -x
- iii. Others – r--

6. For the following files change permissions using **chmod** cmd  
(Numeric values)

a. abc4-xyz

- i. User – r - x
- ii. Group – ---
- iii. Others – --x

b. abc5-xyz

- i. User – r - x
- ii. Group – r- x
- iii. Others – r-x

c. abc6-xyz

- i. User – r - x
- ii. Group – r- x
- iii. Others – r-x

7. Create a file – **SoftLinkTest** under your user directory, input some text and **cat** it to display its contents.
8. Repeat the same for file – **HardLinkTest**.
9. Create softlink for file SoftLinkTest under /tmp directory using **ln-s** cmd
10. Create hardlink for file **HardLinkTest** under /tmp directory using **ln** cmd
11. Check the **inodes** for each file and its link
12. **Update** the file **contents** and observe the changes
13. **Delete** the **files** and observe the changes
14. Create a **hard** and **soft link** for a directory of your choice and record the results.
15. Use cp cmd to copy a directory of your choice into CEO directory. Try with **empty** as well as with **sub directories**.
16. Go to /var/log, display the contents of file messages using **more** and **less**, **head** and **tail** cmd
17. Go to /bin, run cmd **ls -l | more**
18. Go to /bin, run cmd **ls -l | less**
19. Go to /bin, run cmd **ls -l | head**
20. Go to /bin, run cmd **ls -l | tail**
21. Run **head** and **tail** cmd to get specified number of lines displayed eg. head -5, tail -3 etc.
22. Understand the use of Pipe |.