UNIX TASK

1. Write a command to List the files & directories in current working directory

Command : [Poorna@webminal.org directory1]$ ls

directory1a directory1A file1a.txt source.txt

2. Write a command to display the long listing of files and directories of your current working directory

Command : [Poorna@webminal.org ~]$ ls -l

total 32

drwxrwxr-x. 3 Poorna Poorna 23 Jun 21 07:11 AasthaDir

-rw-rw-r--. 1 Poorna Poorna 187 Jun 21 08:52 batch.txt

-rw-rw-r--. 1 Poorna Poorna 45 Jun 21 11:26 capital.txt

drwxrwxr-x. 4 Poorna Poorna 80 Jun 21 15:24 directory1

drwxrwxr-x. 4 Poorna Poorna 58 Jun 21 16:01 directory2

-rw-rw-r--. 1 Poorna Poorna 73 Jun 21 12:56 file1.txt

-rw-rw-r--. 1 Poorna Poorna 183 Jun 21 07:51 HeadTail.txt

-rw-rw-r--. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

-rw-rw-r--. 1 Poorna Poorna 96 Jun 21 07:24 NewFile.txt

-rw-rw-r--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

-rw-rw-r--. 1 Poorna Poorna 74 Jun 21 11:25 state.txt

3. Write a command to list the files and directories of specific directory

Command : [Poorna@webminal.org ~]$ ls -R directory1

directory1:

directory1a directory1A file1a.txt source.txt

directory1/directory1a:

directory1/directory1A:

directory1AA

directory1/directory1A/directory1AA:

4. Write a command to list all files in the current working directory with their file types

Command : [Poorna@webminal.org ~]$ file ./\*

./AasthaDir: directory

./batch.txt: ASCII text

./capital.txt: ASCII text

./directory1: directory

./directory2: directory

./file1.txt: ASCII text

./HeadTail.txt: ASCII text

./Mainfile.txt: ASCII text

./NewFile.txt: ASCII text

./SC.txt: ASCII text

./state.txt: ASCII text

5. Write a command to list files and directories sorted by date & time

[Poorna@webminal.org ~]$ ls -lt

total 32

drwxrwxr-x. 4 Poorna Poorna 58 Jun 21 16:01 directory2

drwxrwxr-x. 4 Poorna Poorna 80 Jun 21 15:24 directory1

-rw-rw-r--. 1 Poorna Poorna 73 Jun 21 12:56 file1.txt

-rw-rw-r--. 1 Poorna Poorna 45 Jun 21 11:26 capital.txt

-rw-rw-r--. 1 Poorna Poorna 74 Jun 21 11:25 state.txt

-rw-rw-r--. 1 Poorna Poorna 187 Jun 21 08:52 batch.txt

-rw-rw-r--. 1 Poorna Poorna 183 Jun 21 07:51 HeadTail.txt

-rw-rw-r--. 1 Poorna Poorna 96 Jun 21 07:24 NewFile.txt

drwxrwxr-x. 3 Poorna Poorna 23 Jun 21 07:11 AasthaDir

-rw-rw-r--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

-rw-rw-r--. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

6. Write a command to list all files of current directory with their sizes in human readable format

Command : [Poorna@webminal.org ~]$ ls -lh

total 32K

drwxrwxr-x. 3 Poorna Poorna 23 Jun 21 07:11 AasthaDir

-rw-rw-r--. 1 Poorna Poorna 187 Jun 21 08:52 batch.txt

-rw-rw-r--. 1 Poorna Poorna 45 Jun 21 11:26 capital.txt

drwxrwxr-x. 4 Poorna Poorna 80 Jun 21 15:24 directory1

drwxrwxr-x. 4 Poorna Poorna 58 Jun 21 16:01 directory2

-rw-rw-r--. 1 Poorna Poorna 73 Jun 21 12:56 file1.txt

-rw-rw-r--. 1 Poorna Poorna 183 Jun 21 07:51 HeadTail.txt

-rw-rw-r--. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

-rw-rw-r--. 1 Poorna Poorna 96 Jun 21 07:24 NewFile.txt

-rw-rw-r--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

-rw-rw-r--. 1 Poorna Poorna 74 Jun 21 11:25 state.txt

7. Write a command to list all files including the hidden files in the current directory

Command : [Poorna@webminal.org ~]$ ls -a

. .bash\_logout capital.txt file1.txt NewFile.txt

.. .bash\_profile directory1 HeadTail.txt SC.txt

AasthaDir .bashrc directory2 .magic\_string.txt state.txt

.bash\_history batch.txt .emacs Mainfile.txt .zshrc

8. Write a command to list the files sorted by their size

Command : [Poorna@webminal.org ~]$ ls -lS

total 32

-rw-rw-r--. 1 Poorna Poorna 187 Jun 21 08:52 batch.txt

-rw-rw-r--. 1 Poorna Poorna 183 Jun 21 07:51 HeadTail.txt

-rw-rw-r--. 1 Poorna Poorna 96 Jun 21 07:24 NewFile.txt

-rw-rw-r--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

drwxrwxr-x. 4 Poorna Poorna 80 Jun 21 15:24 directory1

-rw-rw-r--. 1 Poorna Poorna 74 Jun 21 11:25 state.txt

-rw-rw-r--. 1 Poorna Poorna 73 Jun 21 12:56 file1.txt

drwxrwxr-x. 4 Poorna Poorna 58 Jun 21 16:01 directory2

-rw-rw-r--. 1 Poorna Poorna 45 Jun 21 11:26 capital.txt

-rw-rw-r--. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

drwxrwxr-x. 3 Poorna Poorna 23 Jun 21 07:11 AasthaDir

9. Write a command to list inode numbers of files & directories

Command :

[Poorna@webminal.org ~]$ ls -i

205439397 AasthaDir 205438587 directory2 139507208 NewFile.txt

139501718 batch.txt 139502764 file1.txt 139507205 SC.txt

139502735 capital.txt 139501859 HeadTail.txt 139502734 state.txt

139488161 directory1 139501847 Mainfile.txt

10. Write a command to assign the following permission using numeric notation, the owner has read, write and execute permissions, the group has read and execute permissions and other users have read permissions only.

Command : [Poorna@webminal.org ~]$ chmod 754 SC.txt

[Poorna@webminal.org ~]$ ls -l SC.txt

-rwxr-xr--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

11. Write a command to recursively assigning permissions to directories use the above to set permission.

Command: [Poorna@webminal.org ~]$ chmod -R 754 directory1

[Poorna@webminal.org ~]$ cd -

/home/Poorna/directory1

[Poorna@webminal.org directory1]$ ls -l

total 4

drwxr-xr--. 2 Poorna Poorna 6 Jun 20 15:52 directory1a

drwxr-xr--. 3 Poorna Poorna 26 Jun 20 15:48 directory1A

-rwxr-xr--. 1 Poorna Poorna 29 Jun 21 15:24 file1a.txt

-rwxr-xr--. 1 Poorna Poorna 0 Jun 21 15:24 source.txt

12. Write a command to assign the following permission using text notation, the owner has read and execute permissions, the group has read and write permissions and other users have read permissions only.

Command : [Poorna@webminal.org ~]$ chmod u=rx,g=rw,o=r SC.txt

[Poorna@webminal.org ~]$ ls -l SC.txt

-r-xrw-r--. 1 Poorna Poorna 89 Jun 21 07:04 SC.txt

13. Write a command to add execute permissions to the owner and the group of the file.

Command : [Poorna@webminal.org ~]$ chmod ug+x Mainfile.txt

[Poorna@webminal.org ~]$ ls -l Mainfile.txt

-rwxrwxr--. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

14. Write a command to removes all the permissions from the ‘others’

Command : [Poorna@webminal.org ~]$ chmod o-rwx Mainfile.txt

[Poorna@webminal.org ~]$ ls -l Mainfile.txt

-rwxrwx---. 1 Poorna Poorna 43 Jun 21 06:59 Mainfile.txt

15. Write a command to assign execute permission only on directories without touching files.

Command : [Aastha1@webminal.org home]$ find Aastha1 -type d -exec chmod ugo+x {} \;

[Aastha1@webminal.org home]$cd Aastha1

[Aastha1@webminal.org ~]$ ls -l

total 8

drwxr-xr-x. 2 Aastha1 Aastha1 6 Jun 21 17:34 AasthaDir

drwxr-xr-x. 2 Aastha1 Aastha1 6 Jun 21 17:34 directory1

drwxr-xr-x. 2 Aastha1 Aastha1 6 Jun 21 17:34 directory2

-rw-rw-r--. 1 Aastha1 Aastha1 42 Jun 21 17:33 fileA.txt

-rw-rw-r--. 1 Aastha1 Aastha1 129 Jun 21 17:35 Mainfile.txt

-rw-rw-r--. 1 Aastha1 Aastha1 0 Jun 21 17:33 Sample.txt

16. Write a command to change the ownership of the file file1.txt to user abcd and group ADM.

Command :

[Aastha1@webminal.org ~]$ chown abcd file1.txt

[Aastha1@webminal.org ~]$ chgrp ADM file1.txt

17. Write a command to prints the number of lines in a file.

Command : [Poorna@webminal.org ~]$ wc -l state.txt

6 state.txt

18. Write a command to prints the number of words in a file

Command : [Poorna@webminal.org ~]$ wc -w state.txt

10 state.txt

19. Write a command to display the count of bytes in a file

Command : [Poorna@webminal.org ~]$ wc -c state.txt

74 state.txt

20. Write a command to print the count of characters from a file.

Command : [Poorna@webminal.org ~]$ wc -m HeadTail.txt

183 HeadTail.txt

21. Write a command to prints only the length of the longest line in a file.

Command : [Poorna@webminal.org ~]$ wc -L batch.txt

85 batch.txt