Linux operating system

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* Open source
* Linux is secured

Its a CUI/ GUI based OS

CUI – Character user Interface / Command user Interface

GUI – Graphical user interface

* It is a multiuser OS
* It is a multi-tasking OS

Kernel

* Heart of OS
* Helps the OS to communicate with system resources

Shell

* Helps in communicating with kernel

Linux Architectutre

Kernal

Shell

Utilities

File/directories

Commands

>pwd 🡪 gives the current path

>su 🡪 switch as admin/root user

>exit

In Linux

* File system starts from root - /
* > cd / 🡪 will take into root directory
* >cd ..
* >cd foldername
* >ls 🡪 list the files and directories
* >ls -l 🡪 gives the long list

>ls -a 🡪 shows the hidden folders and file as well

>ls -a -R 🡪 gives the subfolders and files

>touch filename.extension 🡪 create a file

>cat > filename 🡪 create a text file

>ctrl +d 🡪 save the file

>cat filename.ext 🡪 to check the content in a file

>mkdir 🡪 create a folder/directory

> cp filename.ext ./foldername (./ for same folder)

>cp cp filename.ext ../foldername (../ one folder back)

>mv oldfilename.ext newfilename.ext 🡪 To rename file

>rm filename.ext 🡪 to delete a file

>rmdir foldername 🡪 to delete a folder

>rm -R foldername 🡪 delete the folder even the if it has subfolders and files

> cd Natwest\ demo/ 🡪 to navigate to a folder that has named using space. (Natwest demo)

> find . -name filename.ext 🡪 searching the file (. - path)

> find . -type f -name “demo\*” 🡪 to search only the files starting with demo

> find . -type d -name “demo\*” 🡪 to search only the folders starting with demo

> find . -type d -iname “demo\*” 🡪 case insensitive

> find . -mtime -10 -size -50M 🡪 searching the file created 10 ago with size less than 50 MB

> cat filename.ext | wc 🡪 gives the total count of lines, words and characters

>cat filename.ext | wc -w 🡪gives the total count of word

>cat filename.ext | wc -c 🡪 gives the total count of character

>cat filename.ext | wc -l 🡪 gives the total count of lines