---Difference bet System s/w and app s/w
---CLI and GUI
--- what is a process and process id
--- Wt and Ta
--- Multitasking
-- disadvantages of RR
---preemptive priority scheduling

_____

_

Linux ------

    clear
    ls
    pwd
    cd
    what is the topmost folder of linux -----   / = forward slash

| mkdir | Make a directory |

  ~ **tilde   symbol**

  ~ = the home folder of the user who has logged in

     /
     ----home (folder where user wise folders are created)
          --- alpha (user wise home folder for user alpha)
          --- beta (user wise home folder for user beta)
          ---unix (user wise home folder for user unix)

If I have logged in as **alpha**   then the **~**   would be   **/home/alpha**
If I have logged in as **unix**   then the **~**   would be   **/home/unix**

_____

  su = Switch User
  su   username
  password -- enter the password of that user
  you will be logged to that user

_____

    sudo su   }   login to the administrator ----- SUPER USER   ------ root   user

    If you want to create a new user , you must give root permissions ! Then only you can
    create a new user .
_____
  useradd = command

option = `-m`   (make a home folder for this user)
`username` (the new user's name)

Finally the command looks like this ----	`useradd` `-m` `blue`

Ex1.	sudo su	REMEMBER the root password given while installation	This will change to the super user permissions
	Run the useradd command	`useradd` `-m` `blue` `passwd blue`	This will **create a new user** with a new password and user's home folder in /home
	Run the switch user command	`su yellow` `yellow`	This will **change the current user** to yellow
	Change the current folder to the home folder of the current user	cd /home/yellow OR cd ~	

root@prachi:/home/unix# su yellow
yellow@prachi:/home/unix$

 current user = yellow
 current folder = /home/unix
NOW CHANGE THE FOLDER TO HOME FOLDER OF YELLOW   -----------
        cd ~
        Current folder   = /home/yellow

_____
_____

Absolute and Relative Paths ------------------------

 absolute path = path starting from   /
 relative path = path starting from current folder

 mkdir ---------- make directory

 we have all the permission within the user wise home folder !!!!

_____
/
--------home
            -----blue
            -----unix
            ----alpha
            ----beta
            ----yellow

WHICH folder can I modify ?   The folder which is the home of CURRENT USER   = tilde ~
        cd   ~
        I have permissions to modify here !!
_____

CURRENT FOLDER	/home/blue	
I create a folder	mkdir planets	This folder is created in the current folder
I check content	ls	Shows content of current folder
I want to see the content of planets		
FIRST WAY	ls **path**	
	ls **/home/blue/planets**	ls the contents of planets , using absolute path
	ls **./planets**	. = current folder ./planets ,using relative path

Current Folder	/home/blue
I want to create a subfolder earth inside the planets folder	mkdir path
absolute path	mkdir /home/blue/planets/earth
I want to create a subfolder mars inside planets folder	
relative path using .	mkdir /planets/mars
I want to create a subfolder jupiter inside planets folder	
relative path without using dot	mkdir planets/jupiter
I want to create a subfolder info inside the earth folder	
absolute path	mkdir /home/blue/planets/earth/info
relative path using dot	mkdir ./planets/earth/info
relative path without using dot	mkdir planets/earth/info

Current Folder	**/home/blue**
Change the current folder to info using absolute path	**cd /home/blue/planets/earth/info**
Current Folder	**/home/blue/planets/earth/info**
Change the curr dir to planets	
absolute path	**cd /home/blue/planets**
relative path using .. (parent)	**cd ../..**
Current Folder	**/home/blue/planets**
change the curr dir to topmost	**cd /**
Curr folder	**/**

change to my home folder	
1. cd /home/blue 2. cd ~ 3. cd ./home/blue 4. cd home/blue	
Cur fol	/home/blue
Move to mars folder using relative path with .	cd ./planets/mars
Go to parent of mars using ..	cd ..
Cur fol	/home/blue/planets
create a subfolder moons in juptier folder First cd to jupiter using relative path Then mkdir moons	
Cur fol	/home/blue/planets/jupiter/moons
Create folder saturn in planets using relative path Stay in cur folder /home/blue/planets/jupiter/moons	mkdir ../../saturn And check ls ../..

To remove folders ----------
     To remove empty folder   rmdir path
     To remove non empty folder   rm -r   path

Curr fol	/home/blue/planets/jupiter/moons
Stay in current folder and remove /home/blue/planets/mars empty folder	rmdir /home/blue/planets/mars
	rmdir ../../mars Check using ls ../..
Stay in current folder and remove /home/blue/planets/earth non-empty folder	rm -r ../../earth Check using ls ../..

_____
___

Till now you have user GUI editors = notepad, wordpad , editplus , atom , visual studio code,……………

Using a CLI EDITOR   = VI Editor

 Current Folder /home/blue/planets/jupiter/moons
Stay in curr folder

Create a file data in curr foder using vi editor and change the contents of the file !!!!!
Command =   vi path

  vi data   or vi ./data ~~vi /data~~ }   create a file data in the curr folder

This will open your CLI   editor ------------ using   COMMAND MODE
Switch the <mark>command mode to text/insert mode</mark>   --- JUST type   <mark>small i</mark>
 and start typing whatever you want !!!!
  after you r done
 TO save the file Switch the <mark style="background-color:#00ff00">text/insert mode to command mode</mark> !!!! Just press <mark style="background-color:#00ff00">ESC key</mark>
      Type : w = to save the file
             :wq = to save and quit
             :q = to quit an unchanged or saved file
             :q! = to quit without saving changes

_____

 man command ---------   manual

Try   man ls

Run the command ls   , ls -R
_____
____

To travel across folders using **cd   path**

Two types of paths ----
1. absolute path = always starts from topmost folder
2. Relative path = starts from current folder

_