

# Second Session 28/08/2023

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## Presenter:

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At first we had a funny discussion to introduce ourselves and say a fact and say a command in linux.

We started the class with introducing linux and its basic commands.

The commands that Mr.Alinejad told :

- Cd : Change directory :
  - Paths :
    - Absolute path : A path that is start from root.
    - Relative path :
      - `cd '-'` : Go to old directory.
      - `cd '../'` : Go to the directory before.
- Alias : To define a variable to run a command :
  - `alias '` : Show all alias that user defined.
  - `unalias 'defined variable'` : Delete a variable that is use as command .
- Man : Show references to commands and options :
- Sudo : Allow user to do some commands like apt,passwd and ... :
  - `sudo su '-'` : Change user to root and go to root home directory .
  - `sudo su` : Change user to root user in the directory that you are in it .
- Pwd : Show the directory that you are in it .
  - `~` : Home directory of user that you are .
- Apt : Managing packages :
  - `apt install 'package name'` : Install a package or update a package .
  - `apt purge --auto-remove 'package name'` : Remove packages with all of its config and logs .
  - `apt list` : List all of apps in your repository .
  - `apt update` : Check a package that a new update released for it or not .
  - `apt upgrade` : Update all packages .
- Nano : Text editor :

- `nano 'file name'` : Open file to read and write it .
- Cat : Show information in file :
  - `cat 'string' > 'file name'` : Write string in file .
  - `cat > 'file name'` : Type in a file and save in it .
- Echo : Show given information :
  - `echo 'string'` : Print string .
- Grep : Find matches of given information with given pattern :
  - `grep 'string'` : Check info and find matches of information and pattern .
- Ls : List all files in a directory :
  - `ls -a` : All files in a directory with hidden files .
  - `ls -A` : Not show .. and ./ .
  - `ls -l` : Show permission, user, group, size and time of files .
  - `ls -t` : Sort by time from older to newer .
  - `ls -r` : Reverse used sort .
  - `ls -h` : Show size of file in human readable format .
  - `ls -F` : Concat an indicator .
  - `ls -i` : Show inode number of files .
- Mkdir : Making new directory :
  - `mkdir -p [foldername\foldername]` : To make new directory in a new directory .
- Mv : Move file or rename it .
  - `mv [src] [destination]` : Move file from source to destination .
- Passwd : Change password of user .
- Find : Find files :
  - `find .` : Find in your directory and its subdirectory .
  - `find -iname` : Find a file that is ignorecase .
  - `find -mtime [+/-][days]` : Find files that not modified in entered days .
  - `find -atime [+/-][days]` : Find files that not accessed in entered days .
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- Touch : Make a file :
  - `touch [filename]` : Make a file with entered filename .