Course Name:- The Command Line

Mission Name:- Introduction to Command Line

* A command line interface (CLI) is a text only interface through which users interact with computers by typing text instructions in a console (or terminal), using specific syntax.

* The commands are interpreted by a type of program called a shell or command language interpreter, and then run by your machine.

   Examples of most popular shell:- Bash, Z-Shell, KornShell, Command Prompt.

* Linux and OS-X are Unix-like operating system and behave like Unix and this similarity has been transported to their respective command language interpreter.

* Windows shells are independent and very different from the others.

* Why is it important to use CLI:-
i) Supports abounds.
ii) Valued by employers.
iii) Very common tool in data science.
iv) Allows to automate repetitive tasks.
v) Extremely powerful utilities for data processing/data-driven programming like AWK and sed.
vi) One of the best way to use cloud services.
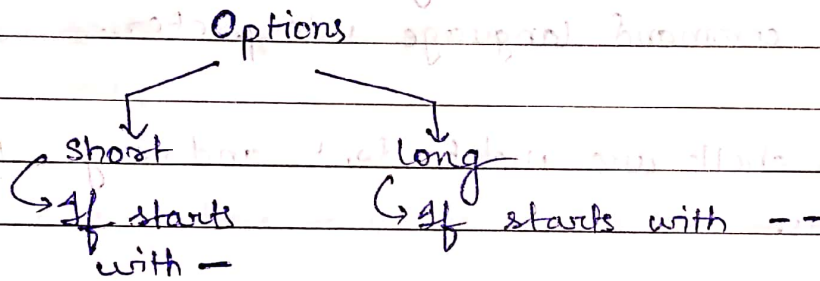
* "date" → Prints current date and time

* General format of the commands :-

utility-name parameter1 parameter2 .... parameterN

* parameters are either an option or an argument.

* Option :- String of symbol that modifies the behaviour of the command and it always starts with a dash (-).

* Argument :- Is an object upon which the commands acts.

Eg :- diff -y augustus veruca

utility name   option   Arguments.

Options
├── short
│   └── If starts with -
└── long
    └── If starts with --

* Long options are used :-

i) Because they are easier to remember.

ii) Because they ~~are~~ it is easy to guess what they do.

Eg :- diff --side-by-side augustus tv
                └── similar to -y

* "history" command is used to display all the commands till date.

* If we want to execute the 10th command in history list, then we execute !10.

* Negative indexing also possible i·e last command in the history is represented by !-1 and so on.

* "clear" command is used to clear the outputs on the screen.

* "exit" is used to quit terminal when work is done.