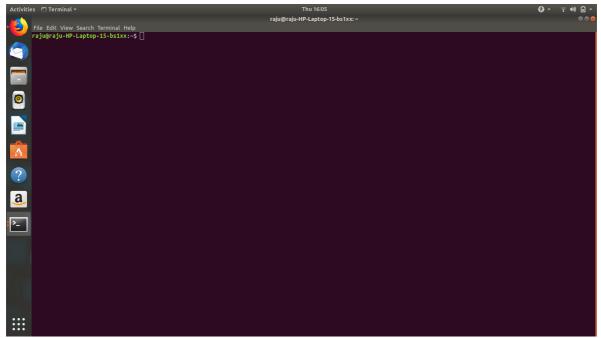
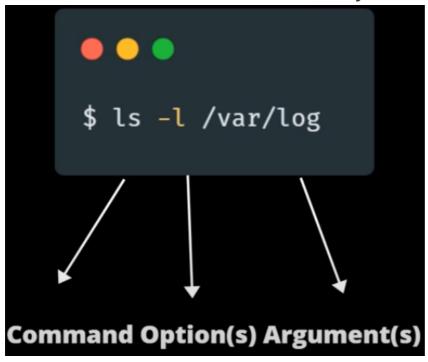
Introduction to Linux & Shell Scripting

Command line interface



General command syntax



Command: The program run by the user.

Option(s): Tell the command how to operate, it always starts with "-" character and has a single letter.

Argument: Tells the command what to operate on

Famous general commands

Is ---> list a folder's content.

man Is ---> it's a manual, in this case for Is.

file file_name.ext ---> It's used to find the details of a file name.

stat file_name.ext ---> It's used to display ownership and modification information.

Linux Architecture - Kernel & Shell

Kernel: Is a computer program that's the core of a computer's operating system, it has complete control over everything in the system. It also manages the following resources of the Linux system:

- File management
- Process management
- I/O management
- Memory management
- Device management
- ETC.

Shell: A special user program which provides an interface to the user to use operating system services. It is a command language interpreter that execute commands read from input devices such as keyboards or from files. It gets started when the user logs in or start the terminal.

wget ksh vi

Hardware csh nano

Kernel shell

Utilities

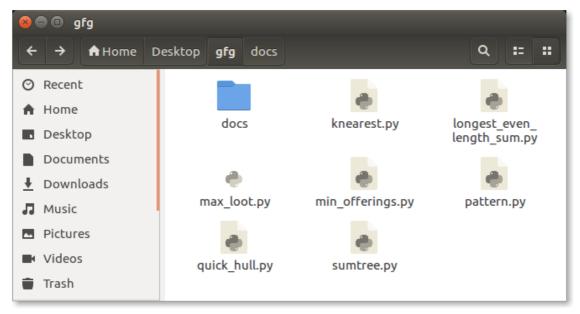
Schell -> Kernel

Command-Line Shell

Shell can be accessed by the user using a command-line interface.

Graphical Shell

Graphical shells provide means for manipulating programs based on graphical user interface (GUI).



Types of shell

- **BASH (Bourne Again SHell)** It is most widely used shell in Linux systems. It is used as default login shell in Linux systems and in macOS. It can also be installed on Windows OS.
- **CSH (C SHell)** The C shell's syntax and usage are very similar to the C programming language.
- **KSH (Korn SHell)** The Korn Shell also was the base for the POSIX Shell standard specifications etc.

Shell relationship

It creates a parent-child relationship where your login shell is always the most senior.

Command Prompt

Are found on the command line interface of any operating system that provides a command-line interface.

[sandra@localhost work]\$

The tilde ~ is short-cut for home directory.

