**Day 1 Assignment linux**

What is linux:

**Linux** is an open-source operating system that is widely used for various computing devices, from servers and desktops to embedded systems and smartphones. Here are some key points about Linux:

Linux comes in various distributions (or "distros"), which are different versions of the operating system:

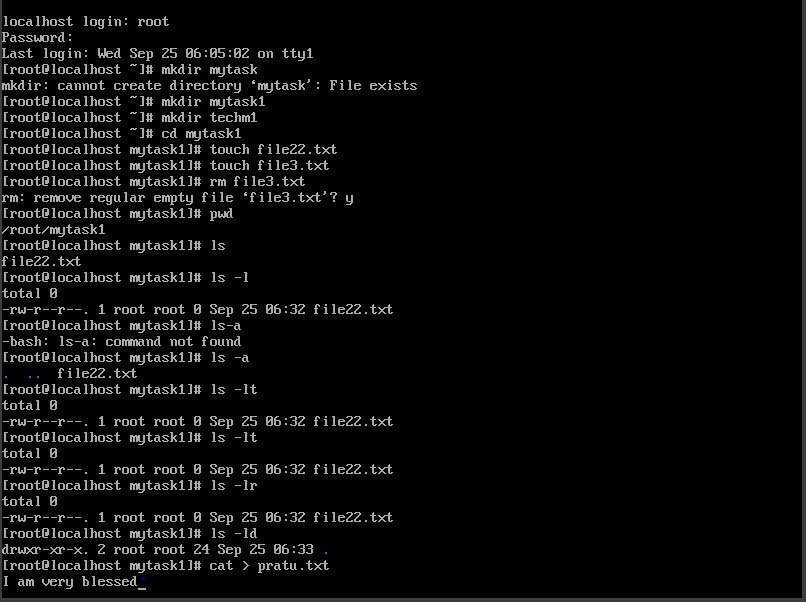
**What is Centos:**

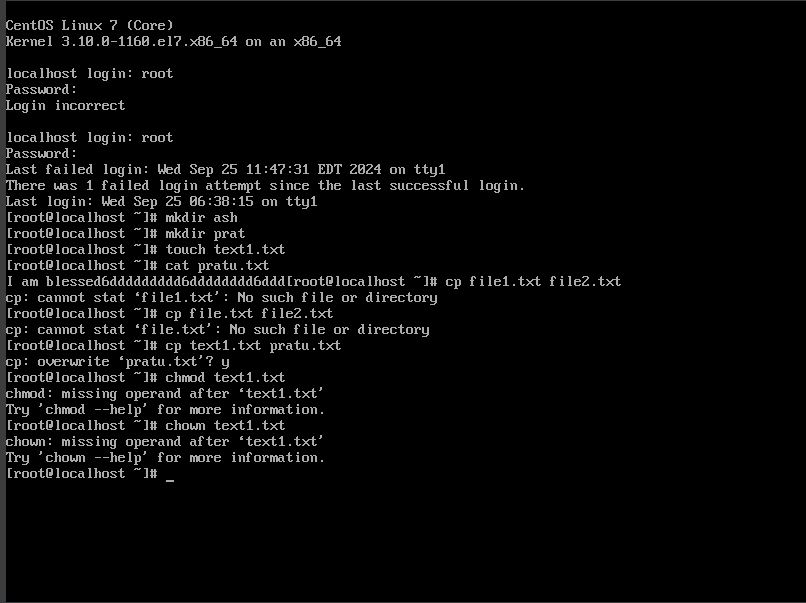
CentOS is a free and open-source operating system that aims to provide a stable reliable, and community-supported platform for servers and other enterprise applications.

It is a Linux distribution Operating system that aims to provide a free, enterprise-class, community-supported computing platform. It is functionally compatible with its upstream source, Red Hat Enterprise Linux (RHEL).

**Basic commands for linux:**

1. mkdir:creates a directory
2. touch:creates empty file
3. cd :To navigate between different folders.
4. rm : delete files
5. pwd: displays current working directory
6. ls :Displays information about files in the current directory.
7. ls -l:to list files in detail information
8. ls -a : to list all files with hidden files
9. ls -lt:to list files with detailed information and sorts the output with time,with newest listed file first
10. ls -lr: to list the files with detailed information and reverse the order of list
11. ls -ld:to list files with detailed information and detail information about directory iself
12. Cat > filename: to create file
13. **cp** (Copy files and directories):Copies files or directories from one location to another.
14. **mv** (Move or rename files and directories):Moves files from one location to another or renames them.
15. **chmod** (Change file permissions):Changes the permissions of files or directories.
16. **chown** (Change file ownership):Changes the owner of a file or directory.
17. **df** (Displays disk space usage):Shows the available and used disk space on the mounted filesystems.
18. **du** (Shows directory space usage):Displays the disk usage of fies and directories.

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