Name: Vaishnavi Vilas Surve

<u>Assignment 6</u>

- ❖ ls - List directory contents.

- ❖ ls

- ❖ Displays the files and directories in the current directory.

- ❖ cd - Change directory.

- ❖ cd /path/to/directory

- ❖ Moves you to the specified directory.

- ❖ pwd - Print working directory.

- ❖ pwd

- ❖ Shows the full path of the current directory.

- ❖ touch - Create a new empty file.

- ❖ touch filename.txt

- ❖ Creates a new empty file named filename.txt.

- ❖ cp - Copy files or directories.

- ❖ cp source_file destination_file

- ❖ Copies a file from source_file to destination_file.

- ❖ mv - Move or rename files or directories.

- ❖ mv old_name new_name

- ❖ Moves or renames a file or directory from old_name to new_name.

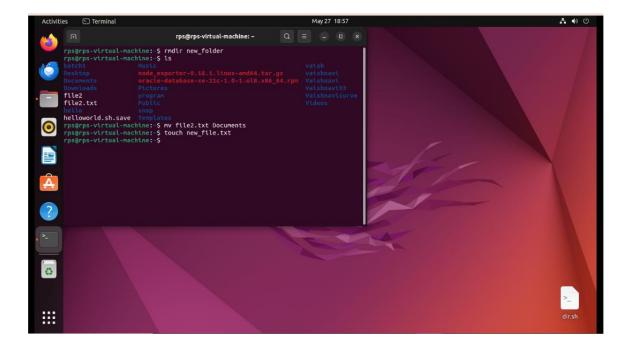**Name: Vaishnavi Vilas Surve**

- ❖ rm - Remove files or directories.
- ❖ rm filename.txt
- ❖ Deletes the specified file or directory.

- ❖ mkdir - Create a new directory.
- ❖ mkdir new_directory
- ❖ Creates a new directory named new_directory.

- ❖ rmdir - Remove an empty directory.
- ❖ rmdir empty_directory
- ❖ Deletes an empty directory named empty_directory.

- ❖ cat - Concatenate and display file contents.
- ❖ cat filename.txt
- ❖ Displays the contents of filename.txt.

- ❖ echo - Display a line of text.
- ❖ echo "Hello, world!"
- ❖ Prints "Hello, world!" to the terminal.

- ❖ nano - Open a file in the nano text editor.
- ❖ nano filename.txt
- ❖ Opens filename.txt in the nano text editor.
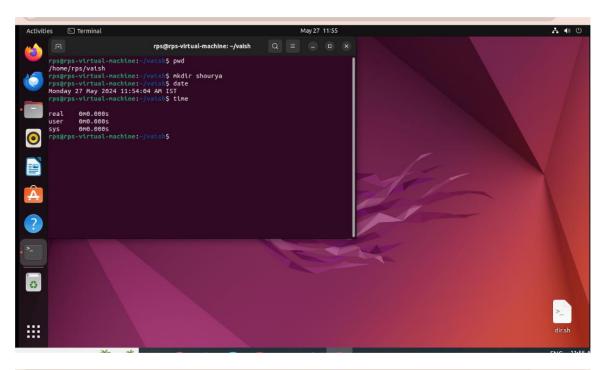
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❖ vim - Open a file in the vim text editor.

❖ vim filename.txt

❖ Opens filename.txt in the vim text editor.

❖ grep - Search for a pattern in files.

❖ grep "search_term" filename.txt

❖ Searches for "search_term" in filename.txt and displays matching lines.

❖ find - Search for files in a directory hierarchy.

❖ find /path -name "filename"

❖ Searches for files named filename within /path.

❖ locate - Find files by name (using a database).

❖ locate filename

❖ Quickly finds files named filename by searching a prebuilt database.

❖ df - Display disk space usage.

❖ df -h

❖ Shows disk space usage in a human-readable format.

❖ du - Display file and directory space usage.

❖ du -sh /path/to/directory
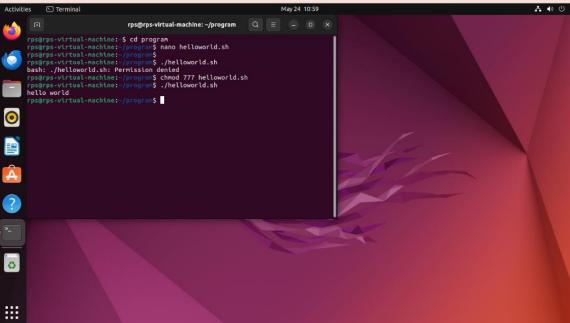
❖ Displays the size of a directory and its contents.

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- ❖ top - Display real-time system processes.

- ❖ top

- ❖ Shows a real-time view of running processes and system resource usage.

- ❖ ps - Display current processes.

- ❖ ps aux

- ❖ Lists all running processes with detailed information.

- ❖ kill - Terminate a process.

- ❖ kill PID

- ❖ Terminates the process with the specified Process ID (PID).

- ❖ chmod - Change file permissions.

- ❖ chmod 755 filename

- ❖ Sets the permissions of filename to 755 (rwxr-xr-x).

- ❖ chown - Change file owner and group.

- ❖ chown user:group filename

- ❖ Changes the owner and group of filename to user and group.

- ❖ ssh - Connect to a remote machine via SSH.

- ❖ ssh user@hostname

- ❖ Opens an SSH connection to a remote machine at hostname with user.

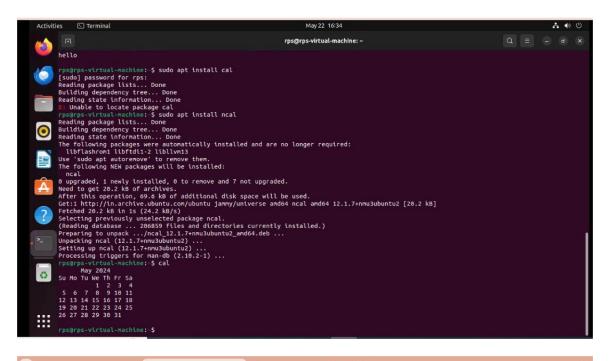- ❖ scp - Securely copy files between hosts.

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- ❖ scp file user@hostname:/path/to/destination

- ❖ Securely copies file to the specified remote destination.

- ❖ wget - Download files from the web.

- ❖ wget http://example.com/file

- ❖ Downloads file from the specified URL.

- ❖ curl - Transfer data from or to a server.

- ❖ curl http://example.com

- ❖ Transfers data from the specified URL and displays it.

- ❖ tar - Archive files.

- ❖ tar -cvf archive.tar file1 file2

- ❖ Creates a tar archive named archive.tar containing file1 and file2.

- ❖ unzip - Extract files from a ZIP archive.

- ❖ unzip archive.zip

- ❖ Extracts the contents of archive.zip.

- ❖ gzip - Compress files.

- ❖ gzip filename

- ❖ Compresses filename into filename.gz.

- ❖ gunzip - Decompress files.

- ❖ unzip filename.gz

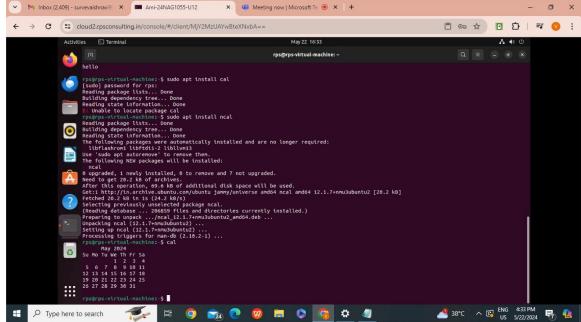- ❖ Decompresses filename.gz to filename.

❖ head - Display the beginning of a file.

❖ head filename.txt

❖ tail - Display the end of a file.

❖ tail filename.txt

❖ history - Display command history.

❖ history

❖ Lists all previously executed commands in the terminal.

❖ man - Display the manual for a command.

❖ man command

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❖ These commands are essential for basic file manipulation, navigation, and system monitoring in a Linux environment.