**Title: Linux Command List Assessment**

**Assignment 1**

***NAME: E VARUN SAI  
REG.NO:20BCD7179***

***CAMPUS: VIT-AP***

**Instructions:-**

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

**File and Directory Operations:**

ls: List files and directories

A screen shot of a computer

Description automatically generated with medium confidence

cd: Change directory

A picture containing text, screenshot, font, graphics

Description automatically generated

pwd: Print working directory

A picture containing text, screenshot, font

Description automatically generated

mkdir: Make directory

A picture containing text, font, screenshot

Description automatically generated

touch: Create an empty file

A picture containing text, screenshot, font

Description automatically generated

cp: Copy files and directories

A picture containing text, screenshot, font

Description automatically generated

mv: Move or rename files and directories

A screenshot of a computer

Description automatically generated with low confidence

rm: Remove files and directories

A screenshot of a computer

Description automatically generated with low confidence

find: Search for files and directories

A picture containing screenshot, text, font, graphics

Description automatically generated

**File Viewing and Editing:**

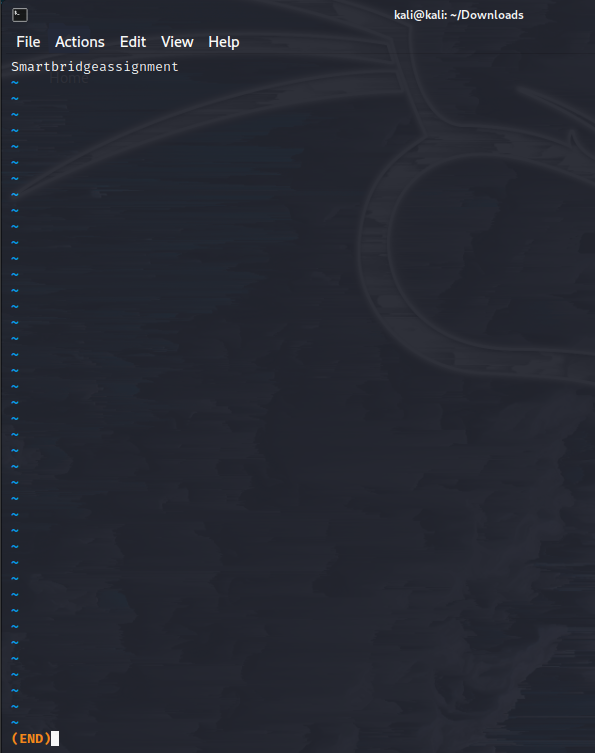
cat: Concatenate and display file content

A picture containing text, font, screenshot

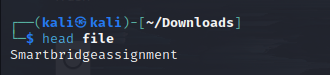
Description automatically generated

less: View file content with pagination

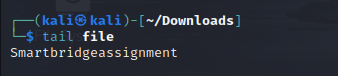




head: Display the beginning of a file



tail: Display the end of a file



nano: Text editor for creating and editing files

A black background with white text

Description automatically generated with low confidence

A screenshot of a computer

Description automatically generated with medium confidence

vi/vim: Powerful text editor for experienced users

A black background with white text

Description automatically generated with low confidence

**File Permissions:**

chmod: Change file permissions

A black background with white text

Description automatically generated with low confidence

chown: Change file owner

A black background with white text

Description automatically generated with low confidence

chgrp: Change file group

A black background with white text

Description automatically generated with low confidence

**File Compression and Archiving:**

tar: Archive files

A picture containing text, font, screenshot

Description automatically generated

gzip: Compress files

A black background with white text

Description automatically generated with low confidence

unzip: Extract files from a ZIP archive

A picture containing text, screenshot, font

Description automatically generated

**Process Management:**

ps: List running processes

A screenshot of a computer program

Description automatically generated with medium confidence

top: Display real-time system information and processes

A screenshot of a computer

Description automatically generated

kill: Terminate processes

A picture containing text, screenshot, font, graphics

Description automatically generated

bg: Run processes in the background

A picture containing text, font, screenshot, number

Description automatically generated

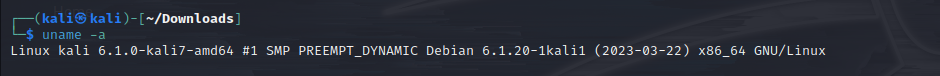
fg: Bring background processes to the foreground

A black background with white text

Description automatically generated with low confidence

**System Information:**

uname: Print system information



df: Display disk space usage

A screenshot of a computer

Description automatically generated with medium confidence

free: Display memory usage

A picture containing screenshot, text

Description automatically generated

uptime: Show system uptime

A picture containing text, screenshot, font

Description automatically generated

who: Display logged-in users

A picture containing text, screenshot, font

Description automatically generated

w: Display logged-in users and their activities

A picture containing text, screenshot, font

Description automatically generated

**Networking:**

ifconfig: Configure network interfaces

A picture containing text, screenshot, font

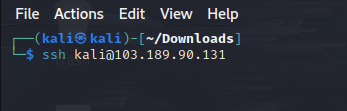
Description automatically generated

ping: Send ICMP echo requests to a network host

A screen shot of a computer

Description automatically generated with medium confidence

ssh: Securely connect to a remote system



scp: Securely copy files between systems

A picture containing text, screenshot, font

Description automatically generated

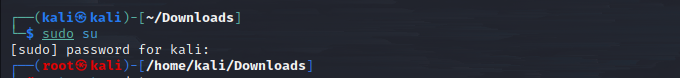
wget: Download files from the web

A picture containing text, screenshot, font

Description automatically generated

**System Administration:**

sudo: Execute commands with superuser privileges



apt-get: Package management for Debian-based distributions

A screen shot of a computer code

Description automatically generated with low confidence

yum: Package management for Red Hat-based distributions



systemctl: Manage system services

A screenshot of a computer program

Description automatically generated with medium confidence

crontab: Schedule recurring tasks

A screen shot of a computer

Description automatically generated with medium confidence

useradd: Add a new user

passwd: Change user password

A screen shot of a computer

Description automatically generated with medium confidence