Linux Basics assignment:

1.Creating and Renaming Files/Directories:

* mkdir test\_dir - new directory named test\_dir was successfully created
* touch test\_dir/example.txt - An empty file named example.txt was created inside the test\_dir directory.
* mv test\_dir/example.txt test\_dir/renamed\_example.txt -The example.txt file was renamed to renamed\_example.txt using the mv command.

2.Viewing File Contents:

* cat /etc/passwd - The **entire contents** of the /etc/passwd file were displayed to standard output
* head -n 5 /etc/passwd - The **first 5 lines** of the file were displayed using the head command with the -n 5 option.
* .tail -n 5 /etc/passwd - The **last 5 lines** of the file were displayed using the tail command with the -n 5 option.

3.Searching for Patterns:

* grep "root" /etc/passwd - The command searched the /etc/passwd file and printed every line that contained the literal string "root."

4.Zipping and Unzipping:

* zip -r test\_dir.zip test\_dir - The test\_dir directory was recursively compressed into a single archive file named test\_dir.zip.
* unzip test\_dir.zip -d unzipped\_dir - The contents of test\_dir.zip were extracted into a new directory named unzipped\_dir.

5.Downloading Files:

* wget https://example.com/[sample.txt](https://example.com/sample.txt) - The wget utility downloaded the content from the provided URL, typically saving the result as index.html.

6.Changing Permissions:

* touch secure.txt - An empty file named secure.txt was created.
* chmod 444 secure.txt - File permissions were set to read-only (r−−) for the owner, the group, and all others using the octal code 444.

7.Working with Environment Variables:

* export MY\_VAR="Hello, Linux!" - The shell variable MY\_VAR was set to the value "Hello, Linux!" and exported, making it available to subsequent child processes.
* echo $MY\_VAR is used for printing the stored content in the MY\_VAR variable