**Answers of Linux Assignment**

1. Creating and Renaming Files/Directories

Create a directory named test\_dir using mkdir.

**mkdir test\_dir**

Inside test\_dir, create an empty file called example.txt.

**touch test\_dir/example.txt**

Rename example.txt to renamed\_example.txt using mv

**mv example.txt renamed\_example.txt**

2. Viewing File Contents

Use cat to display the contents of /etc/passwd.

**cat /etc/passwd**

Display only the first 5 lines of /etc/passwd using head.

**head -n 5 /etc/passwd**

Display only the last 5 lines of /etc/passwd using tail.

**tail -n 5 /etc/passwd**

3.Searching for Patterns

Use grep to find all lines containing the word "root" in /etc/passwd.

**cat /etc/passwd | grep -n root**

4. Zipping and Unzipping

Compress the test\_dir directory into a file named test\_dir.zip using zip.

**zip -r test\_dir.zip test\_dir**

Unzip test\_dir.zip into a new directory named unzipped\_dir.

**unzip test\_dir.zip -d unzipped\_dir**

5. Downloading Files

Use wget to download a file from a URL (e.g., <https://example.com/sample.txt>).

**wget** [**https://example.com/sample.txt**](https://example.com/sample.txt)

6. Changing Permissions

Create a file named secure.txt and change its permissions to read-only for everyone using chmod.

**touch secure.txt**

**chmod -a +r secure.txt**

7. Working with Environment Variables

Use export to set a new environment variable called MY\_VAR with the value "Hello, Linux!".

**export MY\_VAR="Hello, Linux!"**

**Submission Guidelines -:** Attach Screenshots or command along with explanation and submit in doc(google doc or microsoft doc) format also attach github repo link

**GitHub URL:** <https://github.com/tejaskaher999/tutedude.git>