Linux Command Practice Assignment

# 1. Creating and Renaming Files/Directories

$ mkdir test\_dir  
$ touch test\_dir/example.txt  
$ mv test\_dir/example.txt test\_dir/renamed\_example.txt

Explanation:  
- mkdir creates a directory.  
- touch creates an empty file.  
- mv renames or moves files.

# 2. Viewing File Contents

$ cat /etc/passwd  
$ head -n 5 /etc/passwd  
$ tail -n 5 /etc/passwd

Explanation:  
- cat prints the full file.  
- head shows the beginning.  
- tail shows the end.

# 3. Searching for Patterns

$ grep "root" /etc/passwd

Explanation:  
- grep searches for patterns in files.

# 4. Zipping and Unzipping

$ zip -r test\_dir.zip test\_dir  
$ unzip test\_dir.zip -d unzipped\_dir

Explanation:  
- zip -r compresses recursively.  
- unzip -d extracts into a target folder.

# 5. Downloading Files

$ wget https://example.com/sample.txt

Explanation:  
- wget downloads files from the internet.

# 6. Changing Permissions

$ touch secure.txt  
$ chmod 444 secure.txt

Explanation:  
- chmod 444 sets read-only permission.

# 7. Working with Environment Variables

$ export MY\_VAR="Hello, Linux!"  
$ echo $MY\_VAR

Explanation:  
- export makes variables available in the shell.

# Submission Guidelines

1. Screenshots: Take terminal screenshots for each command & output.  
2. Documentation: Add commands + explanations into this Google Doc or Microsoft Word doc.  
3. GitHub Repo:  
 - Create a repo (e.g., linux-commands-practice).  
 - Upload screenshots and your .docx/.pdf file.  
 - Share the repo link.