Linux Commands Assignment

# 1. Creating and Renaming Files/Directories

Commands:  
 mkdir test\_dir  
 cd test\_dir  
 touch example.txt  
 mv example.txt renamed\_example.txt  
  
Explanation:  
- mkdir test\_dir → creates a directory named test\_dir.  
- touch example.txt → creates an empty file inside test\_dir.  
- mv example.txt renamed\_example.txt → renames the file.  
  
[Insert Screenshot Here]

# 2. Viewing File Contents

Commands:  
 cat /etc/passwd  
 head -n 5 /etc/passwd  
 tail -n 5 /etc/passwd  
  
Explanation:  
- cat → displays the full content of /etc/passwd.  
- head -n 5 → shows the first 5 lines.  
- tail -n 5 → shows the last 5 lines.  
  
[Insert Screenshot Here]

# 3. Searching for Patterns

Command:  
 grep "root" /etc/passwd  
  
Explanation:  
- grep "root" → searches for lines containing root in /etc/passwd.  
  
[Insert Screenshot Here]

# 4. Zipping and Unzipping

Commands:  
 zip -r test\_dir.zip test\_dir  
 unzip test\_dir.zip -d unzipped\_dir  
  
Explanation:  
- zip -r → compresses test\_dir into test\_dir.zip.  
- unzip -d unzipped\_dir → extracts into a directory named unzipped\_dir.  
  
[Insert Screenshot Here]

# 5. Downloading Files

Command:  
 wget https://example.com/sample.txt  
  
Explanation:  
- wget → downloads files from a URL.  
- In this case, it fetches sample.txt from example.com.  
  
[Insert Screenshot Here]

# 6. Changing Permissions

Commands:  
 touch secure.txt  
 chmod 444 secure.txt  
  
Explanation:  
- chmod 444 → gives read-only permission to owner, group, and others.  
  
[Insert Screenshot Here]

# 7. Working with Environment Variables

Command:  
 export MY\_VAR="Hello, Linux!"  
 echo $MY\_VAR  
  
Explanation:  
- export → sets an environment variable.  
- echo $MY\_VAR → prints the variable value.  
  
[Insert Screenshot Here]

# Submission Guidelines

- Attach Screenshots in the report (marked as [Insert Screenshot Here]).  
- Upload this .docx file and screenshots to GitHub in the required structure.  
- Share the GitHub repository link with the evaluator.