Linux Command Task Documentation

# 1. Creating and Renaming Files/Directories

mkdir test\_dir  
cd test\_dir  
touch example.txt  
mv example.txt renamed\_example.txt

Explanation: Creates a directory, moves into it, creates an empty file, and renames it.

# 2. Viewing File Contents

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

Explanation: `cat` displays the whole file, `head` shows first 5 lines, `tail` shows last 5 lines.

# 3. Searching for Patterns

grep "root" /etc/passwd

Explanation: Searches for lines containing the word 'root' in the file.

# 4. Zipping and Unzipping

cd ..  
zip -r test\_dir.zip test\_dir  
mkdir unzipped\_dir  
unzip test\_dir.zip -d unzipped\_dir

Explanation: Compresses and extracts the directory using zip and unzip.

# 5. Downloading Files

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

Explanation: Downloads file from the given URL.

# 6. Changing Permissions

touch secure.txt  
chmod 444 secure.txt

Explanation: Creates file and sets read-only permission for everyone.

# 7. Working with Environment Variables

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

Explanation: Sets and prints a custom environment variable.

# Submission Guidelines

1. Paste all commands with explanations in this document.  
2. Attach screenshots of each terminal command execution.  
3. Create a GitHub repository named `linux-command-exercises` and push the files.  
  
Git Commands to push:  
git init  
git add .  
git commit -m "Linux command task completed"  
git remote add origin https://github.com/<your-username>/linux-command-exercises.git  
git push -u origin main