Linux Basics 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 creates a new directory.  
- touch creates an empty file.  
- mv renames the file.  
  
[Screenshot: Terminal showing above commands and renamed file]

# 2. Viewing File Contents

Commands:  
cat /etc/passwd  
head -n 5 /etc/passwd  
tail -n 5 /etc/passwd  
  
Explanation:  
- cat displays the entire file.  
- head shows the first few lines.  
- tail shows the last few lines.  
  
[Screenshot: Output of all three commands]

# 3. Searching for Patterns

Command:  
grep "root" /etc/passwd  
  
Explanation:  
- grep searches for matching text in files. This command shows all lines with the word “root” from /etc/passwd.  
  
[Screenshot: Output of grep command]

# 4. Zipping and Unzipping

Commands:  
zip -r test\_dir.zip test\_dir  
unzip test\_dir.zip -d unzipped\_dir  
  
Explanation:  
- zip -r recursively compresses the directory.  
- unzip -d extracts it to a new directory.  
  
[Screenshot: Compressed and uncompressed folders in terminal]

# 5. Downloading Files

Command:  
wget https://www.w3.org/TR/PNG/iso\_8859-1.txt  
  
Explanation:  
- wget downloads files from the internet via URL.  
  
[Screenshot: wget command and downloaded file confirmation]

# 6. Changing Permissions

Commands:  
touch secure.txt  
chmod 444 secure.txt  
  
Explanation:  
- chmod 444 sets read-only permissions for everyone (owner, group, others).  
  
[Screenshot: File created and permission verified using ls -l]

# 7. Working with Environment Variables

Command:  
export MY\_VAR="Hello, Linux!"  
echo $MY\_VAR  
  
Explanation:  
- export sets a temporary environment variable.  
- echo displays its value.  
  
[Screenshot: Environment variable set and printed]

# GitHub Repository Link

👉 [Add your GitHub Repo Link here after uploading your files]

A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.A screenshot of a computer program

AI-generated content may be incorrect.

A computer screen shot of a black screen

AI-generated content may be incorrect.