Part1 Outputs of the following commands

1. pwd 2. cd 3. ls 4. mkdir

5. rm 6. touch 7. hostname 8. cat

9. chmod 10. echo 11. grep 12. fgrep

13. mv 14. cp 15. more 16. less

17. wc 18. awk 19. sed 20. Tail

1. **Pwd**

ShwetaAhirwar@ubuntu:~/demo$ pwd

/home/ShwetaAhirwar/demo

1. **Cd**

ShwetaAhirwar@ubuntu:~/demo$ cd new\_directory

1. **Is**

ShwetaAhirwar@ubuntu:~/demo$ ls

file1.txt file2.txt file3.txt script.sh directory1 directory2

1. **Mkdir**

ShwetaAhirwar@ubuntu:~/demo$ mkdir new\_directory

1. **Rm**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ rm copyfile.txt

1. **Touch**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ touch newfile.txt

1. **Hostname**

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1. **Cat**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ cat newfile.txt

1. **Chmod**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ chmod +x script.sh

1. **Echo**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ echo "Hello, this is a test file." > newfile.txt

1. **Grep**

ShwetaAhirwar@ubuntu:~/demo$ grep "simple" files.txt

1. **Fgrep**

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1. **Mv**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ mv newfile.txt renamedfile.txt

1. **Cp**

ShwetaAhirwar@ubuntu:~/demo/new\_directory$ cp renamedfile.txt copyfile.txt

1. **More**

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1. **Less**

ShwetaAhirwar@ubuntu:~/demo$ less files.txt

1. **Wc**

ShwetaAhirwar@ubuntu:~/demo$ wc files.txt

3 13 74 files.txt

1. **Awk**

ShwetaAhirwar@ubuntu:~/demo$ awk '{print $1}' files.txt

1. **Sed**

ShwetaAhirwar@ubuntu:~/demo$ sed 's/sample/example/' files.txt

1. **Tail**

ShwetaAhirwar@ubuntu:~/demo$ tail files.txt

**Part 2: Answering Questions with Commands**

1. **Navigate to a Specific Directory**:

cd /path/to/directory

1. **See detailed information about files and directories using ls**:

ls -l

1. **Create multiple directories using mkdir**:

mkdir dir1 dir2 dir3

1. **Remove multiple files at once**:

rm file1.txt file2.txt file3.txt

1. **Delete directories using rm**:

rm -r directory\_name

1. **Copy files and directories**:

cp file1.txt /destination/path/

cp -r directory\_name /destination/path/

1. **Rename a file using mv**:

mv oldname.txt newname.txt

1. **Move multiple files using mv**:

mv file1.txt file2.txt /destination/path/

1. **Create multiple empty files using touch**:

touch file1 file2 file3

1. **View content of multiple files**:

cat file1.txt file2.txt

1. **Create a file and add content using cat**:

cat > newfile.txt

Hello, this is new content.

(Ctrl+D to save)

1. **Append contents of one file to another**:

cat file1.txt >> file2.txt

1. **View large files with cat and paging**:

cat largefile.txt | less

1. **Merge multiple files using cat**:

cat file1.txt file2.txt > merged.txt

1. **Append to an existing file using cat**:

Cat >> existingfile.txt

Additional content here.

(Ctrl+D to save)

1. **Explanation of chmod commands**:
   * chmod 777 – Gives full permissions (read, write, execute to all users).
   * chmod 755 – Owner has full permissions, others have read and execute.
   * chmod +x – Adds execute permission to a file.
2. **Find the number of lines matching a pattern**:

grep -c "pattern" filename.txt

1. **Display files containing a specific string**:

grep -l "pattern" \*.txt

1. **Show line numbers of matched lines**:

grep -n "pattern" filename.txt

1. **Match lines starting with a string**:

grep "^pattern" filename.txt

1. **Sort files in descending order**:

sort -r filename.txt

1. **Sort a file based on a specific column**:

sort -k 2 filename.txt