

Assignment 2

Execute Different Commands

Part 1-

1. pwd

```
labex:abhineet/ $ pwd
/home/labex/project/abhineet
labex:abhineet/ $
```

2. cd

```
labex:~/ $ cd abhineet
labex:abhineet/ $
```

3. ls

```
labex:~/ $ ls
abhineet  Code  Desktop  golang  project
```

4. mkdir

```
labex:~/ $ mkdir test
labex:~/ $
```

5. rm

```
labex:~/ $ rm file
labex:~/ $ ls
abhineet  Code  Desktop  golang  project  test
```

6. touch

```
labex:~/ $ touch file
labex:~/ $ ls
abhineet  Code  Desktop  file  golang  project  test
```

7. hostname

```
labex:~/ $ hostname
67dfe33912a7dc36e540dabe
```

8. cat

```
labex:~/ $ cat file.txt  
Hello
```

9. chmod

```
labex:~/ $ chmod 777 file.txt
```

10. echo

```
labex:~/ $ echo "Hello" > file.txt
```

11. grep

```
labex:~/ $ grep -i "Hello" file.txt  
Hello
```

12. fgrep

```
labex:~/ $ fgrep "e" file.txt  
Hello
```

13. mv

```
labex:~/ $ mv file.txt first.txt  
labex:~/ $ ls  
abhineet Code Desktop file first.txt golang project test
```

14. cp

```
labex:~/ $ cp first.txt demo.txt  
labex:~/ $ ls  
abhineet Code demo.txt Desktop file first.txt golang project test
```

15. more

```
labex:~/ $ more demo.txt  
Hello
```

16. less

```
labex:~/ $ less demo.txt
```

```
Hello  
demo.txt (END)
```

17. wc

```
labex:~/ $ wc demo.txt
1 1 6 demo.txt
```

18. awk

```
labex:~/ $ awk '{print $1}' demo.txt
Hello
```

19. sed

```
labex:~/ $ sed 's/Hello/Bye/g' demo.txt
Bye
```

20. tail

```
labex:~/ $ tail demo.txt
Hello
```

Part 2-

1. How to navigate to a Specific Directory?

cd /path/to/directory

2. How to see detailed information about files and directories using ls?

ls -l

3. How to create multiple directories in Linux using `mkdir` command?

mkdir dir1 dir2 dir3

4. How to remove multiple files at once with rm?

rm file1 file2 file3

5. Can rm be used to delete directories?

Yes, using rm -r directory_name

6. How Do You Copy Files and Directories in Linux?

cp file1 file2

7. How to Rename a file in Linux Using mv Command?

mv old_name new_name

8. How to Move Multiple files in Linux Using mv Command?

mv file1 file2 file3 destination_directory/

9. How to Create Multiple Empty Files by Using Touch Command in Linux?

touch file1 file2 file3

10. How to View the Content of Multiple Files in Linux?

cat file1 file2

11. How to Create a file and add content in Linux Using `cat` Command?

cat > filename

Type content, then press Ctrl+D to save

12. How to append the Contents of One File to the End of Another File using cat command?

cat file1 >> file2

13. How to use cat command if the file has a lot of content and can't fit in the terminal?

cat largefile | less

14. How to Merge Contents of Multiple Files Using `cat` Command ?

cat file1 file2 > merged_file

15. How to use cat Command to Append to an Existing File?

cat new_content.txt >> existing_file.txt

16. What is “chmod 777 “, “chmod 755” and “chmod +x “or “chmod a+x”?

chmod 777 file -> Gives all permissions (read, write, execute) to everyone.

chmod 755 file -> Gives full permission to the owner, read+execute for others.

chmod +x file -> Makes a file executable.

chmod a+x file -> Makes a file executable like chmod +x but explicitly adds execute permission for all users (a = all).

17. How to find the number of lines that matches the given string/pattern?

grep "pattern" file

18. How to display the files that contains the given string/pattern?

grep -l "pattern" .

19. How to show the line number of file with the line matched?

grep -n "pattern" file

20. How to match the lines that start with a string using grep?

grep "^string" file

21. Can the ‘sort’ command be used to sort files in descending order by default?

Yes, using sort -r file

22. How can I sort a file based on a specific column using the ‘sort’ command?

sort -k column_number file