ell-scripting % .

# Shell Scripting Techniques

In this presentation, we will explore some useful shell scripting techniques with code, input-output samples, and related images. Let's get started!

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# Display Lines from a File

Have you ever wanted to extract specific lines from a file? With this shell script, you can enter the file name and line numbers, and it will display all the lines in between. Simple and efficient!

# Input

File name, starting line number, ending line number

#### Code

echo "Enter the file
name:"
read file\_name
echo "Enter the starting
line number:"
read start\_line
echo "Enter the ending
line number:"
read end\_line
sed -n
\$start\_line,\$end\_line\p
\$file\_name

### Output

Enter file name: a.txt
Enter the starting line: 2
Enter the ending line: 5
Result: i am new to

# Delete Lines from a File

Is there a particular word that you want to delete from a file? This shell script will ask you for the file name and the word to delete, and it will remove all the lines containing that word. Faster than manual deletion, isn't it?

# Input

File name, word to delete

#### Code:

echo "Enter the file name:" read file\_name echo "Enter the word to delete:" read delete\_word grep -v \$delete\_word \$file\_name > temp.txt mv temp.txt \$file\_name cat \$file\_name

# Output:

filename: a.txt word: hi

file having content before removing word hi is

hi i am new to this linux programing

file having content after removing word

i am new to linux programing

# List of Files in a Directory

Want to see a list of all the files in the current directory? This simple shell script will provide a complete list of files that are present in the current directory. It's that easy!

# Input

No input is required

#### Code

echo \$(ls)

# Output

a.txt b.txt s2.sh s3.sh s4.sh s.sh

# Check Type of a File/Directory

Ever found yourself in a situation where you need to differentiate between a file and a directory? This shell script can check if a specific file name is a file type or a directory type. Simple yet useful!

### Input

List of file/directory names

#### Code:

read n files while [ \$n\_files -gt 0 ]; do echo "Enter file/directory name:" read file name if [ -f \$file\_name ]; then echo "\$file name is a file" elif [ -d \$file name ]; then echo "\$file name is a directory" else echo "\$file name is neither a file nor a directory" fi ((n\_files=n\_files-1)) done

# Output:

\_\_\_\_

a.txt

it is File

b.txt it is File

Desktop

it is neither of them

jk it is neither of them

# Copying a File to Another Directory

Do you need to create a copy of a file and place it in a different directory? This shell script takes the file name and the destination folder as inputs and creates a copy of the file in the specified folder. Say goodbye to manual copying!

# Input

File name, destination folder path

#### Code

echo "Enter the file name:" read file\_name echo "Enter the destination folder:" read folder\_name cp \$file\_name \$folder\_name

# Output

A confirmation message that the file has been copied to the destination folder

# Count Occurrences of a Word in a File

Have you ever needed to check the number of times a specific word occurs in a file? With this shell script, you can do it in no time. Simply enter the file name and the word to search for, and it will count the number of occurrences. Efficient and precise!

### Input

File name, word to count

### Code:

echo "Enter the file
name:"
read file\_name
echo "Enter the word to
be counted:"
read word
count=\$(grep -o -i \$word
\$file\_name | wc -l)
echo "The word \$word
appears in \$file\_name
\$count times."

# **Output:**

The number of times the word appears in the file

# Creating a New Directory

Need to create a new directory in the current folder? With this simple shell script, you can create a new directory and assign a name to it. Say hello to easy organization!

# Input

New directory name

#### Code:

echo "Enter the new directory name:" read dir\_name mkdir \$dir\_name

# Output:

A confirmation message that the new directory has been created