Certainly! Here are some examples of shell scripts that demonstrate various string manipulation operations:

1.Concatenating Strings:

#!/bin/bash

string1="Hello"

string2="World"

result="$string1 $string2"

echo "$result"

2.Getting String Length:

#!/bin/bash

string="Hello, World!"

length=${#string}

echo "Length of string: $length"

3.Extracting Substrings:

#!/bin/bash

string="Hello, World!"

substring=${string:7:5}

echo "Substring: $substring"

4.Replacing Substrings:

#!/bin/bash

string="Hello, World!"

new\_string="${string/Hello/Hi}"

echo "New string: $new\_string"

5.Searching for Substrings:

#!/bin/bash

string="Hello, World!"

if [[ $string == \*World\* ]]; then

echo "Substring found!"

else

echo "Substring not found!"

fi

6.Converting to Uppercase/Lowercase:

#!/bin/bash

string="Hello, World!"

uppercase="${string^^}"

lowercase="${string,,}"

echo "Uppercase: $uppercase"

echo "Lowercase: $lowercase"

7.Trimming Whitespace:

#!/bin/bash

string=" Hello, World! "

trimmed="${string#"${string%%[![:space:]]\*}"}"

trimmed="${trimmed%"${trimmed##\*[![:space:]]}"}"

echo "Trimmed string: $trimmed"

8.Splitting Strings:

#!/bin/bash

string="apple,banana,cherry"

IFS=',' read -ra array <<< "$string"

for item in "${array[@]}"; do

echo "Item: $item"

done

9.Checking if String is Empty:

#!/bin/bash

string=""

if [ -z "$string" ]; then

echo "String is empty"

else

echo "String is not empty"

fi

10.Checking if String is Numeric:

#!/bin/bash

string="12345"

if [[ $string =~ ^[0-9]+$ ]]; then

echo "String is numeric"

else

echo "String is not numeric"

fi