Bash Practice Questions for Chapter 6: Strings in Bash

These simple exercises will help you practice what you learned in the sixth chapter of the Bash Beginner Series on Linux Handbook.

Exercise 1: Create a string

Create a string variable named **distro** and initialize its value to "**Rocky Linux is Cool**". Display the string.

Difficulty level: Easy

Hint: Use double quotes to store the string's value.

Exercise 2: Length of a string

Obtain the length of the distro string from exercise 1.

Difficulty level: Easy

Hint: Add `#` before the variable name to print the length of any string variable.

Exercise 3: Concatenate strings

Create a string variable called **rocky** and initialize its value to "**and Awesome!**". Now join strings **distro** and **rocky** inside a third variable. Print it.

Difficulty level: Easy to intermediate

Hint: If the third variable name is **merge**, use `merge=$distro$rocky`.

Exercise 4: Position of a word

Find the position (index) where the letter *o* first occurs in the string **merge** from exercise 3.

Difficulty level: Intermediate

Hint: Use `expr index "$merge"` followed by the word you want to find the index of.

Exercise 5: Replace a word in a string

Using the example from exercise 3, replace the word **Awesome** with **Fantastic**. Display the contents of the modified string.

Difficulty level: Intermediate

Hint: Use `merge="${merge/Awesome/Fantastic}`

Solutions to the Exercises

Solution 1: Create a string

> Create a string variable named **distro** and initialize its value to "**Rocky Linux is Cool**". Display the string.

```
#! /bin/bash

distro="Rocky Linux is Cool"
echo $distro
```

Solution 2: Length of a string

> Obtain the length of the distro string from exercise 1.

```
#!/bin/bash

distro="Rocky Linux is Cool"
echo $distro

echo "Length of the above string"
echo ${#distro}
```

Solution 3: Concatenate strings

> Create a string variable called **rocky** and initialize its value to " **and Awesome!**". Now join strings **distro** and **rocky** inside a third variable. Print it.

```
#!/bin/bash

distro="Rocky Linux is Cool"
echo $distro

rocky=" and Awesome!"
echo 'Merging with " and Awesome!"'

merge=$distro$rocky
echo $merge
```

Solution 4: Position of a word

> Find the position (index) where the letter **w** first occurs in the string **merge** from exercise 3.

```
#!/bin/bash

distro="Rocky Linux is Cool"
echo $distro

rocky=" and Awesome!"
echo 'Merging with " and Awesome!"'

merge=$distro$rocky
echo $merge

echo 'The letter "w" in the new string first occurs at position:'
expr index "$merge" w
```

Solution 5: Replace a word in a string

> Using the example from exercise 3, replace the word **Awesome** with **Fantastic**. Display the contents of the modified string.

```bash
#!/bin/bash

distro="Rocky Linux is Cool"
echo $distro

rocky=" and Awesome!"
echo 'Merging with " and Awesome!"'

merge=$distro$rocky
echo $merge

echo 'Replacing the word "Awesome" with "Fantastic"'
sleep 2
merge=${merge/Awesome/Fantastic}
echo $merge
```