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.

```bash
#!/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.

```bash
#!/bin/bash
distro="Rocky Linux is Cool"
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.

```bash
#!/bin/bash
distro="Rocky Linux is Cool"
echo $distro
```

Solution 4: Position of a word

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

```bash
#!/bin/bash
distro="Rocky Linux is Cool"
echo $distro
```

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.
#!/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