**Exercise**

Create a Java program that demonstrates the difference between deep copying and shallow copying for an array of objects. Use an array of String objects and show how changes to the original array affect the copied array in both shallow and deep copy cases.

**Hint**

* A shallow copy points to the same array reference as the original.
* A deep copy creates a new array with copied elements so changes to the original do not affect the copy.
* Use System.arraycopy() or a loop for a deep copy.

**Explanation**

In this exercise:

1. You will create an array of String objects and make both shallow and deep copies of it.
2. Modify an element in the original array and print both the original and copied arrays to observe the effect.
3. This practice reinforces the concepts of reference types, memory allocation, and the difference between deep and shallow copies in Java.