



Course : Object oriented programming
Tutorial N°4 : JAVA array and String

Exercise N1:

Using the `java.util.Arrays` class, write a Java program that sorts two arrays:

- T1: an array of integers initialized with the values
(1789, 2035, 1899, 1456, 2013, 1458, 2458, 1254, 1472, 2365, 1456, 2165, 1457, 2456)
- T2: an array of strings initialized with the values
("Java", "Python", "PHP", "C#", "C Programming", "C++")

Exercise N2:

Redo **Exercise N1**, but this time without using the `java.util.Arrays` class.

Exercise N3:

Write a **Java program** that sums the values of an integer array:

(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)

Exercise N4:

Write a **Java program** that displays a character at position `x` of a string initialized with "exercice N4".

Exercise N5:

Given the following Java program:

```
class Testimmutablestring {
    public static void main(String args[]) {
        String s = "I am";
        s.concat(" Hungry");
        System.out.println(s);
    }
}
```

Give the output of this program.

Exercise N6:

Give the output of the following Java program:

```
public class Exercise6 {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        String temp = "The";
        String new_str1 = str.replace('d', 'f');
        String new_str2 = str.replaceAll("fox", "cat");
        String new_str3 = str.trim();
        boolean A = str.startsWith(temp);

        System.out.println("Original string: " + str);
        System.out.println("New String: " + new_str1);
        System.out.println("New String: " + new_str2);
        System.out.println("New String: " + new_str3);
        System.out.println(str + " starts with " + temp + " is " + A);
    }
}
```