Character and String

J11

Character and String

The `Character` Class

The `Character` class boxes `char`, just like `Integer` boxes `int`. It contains methods and constants useful for manipulating characters:

- Tests: `isLetter()`, `isDigit()`, etc.

- Conversion: `toString()` (a single character string!)

Escape sequences are used to represent characters that are hard to type:

- \' , \", \\, \n, etc.

The String Class

The String class is provided by Java to store and manipulate strings

(by contrast, in C, a string is simply an array of characters).

- Implicit creation from literal:

        String x = "foo";

- The special length field:

        if (x.length() > 3) …

- Concatenation with "+":

        String y = x + "bar";

Operations on Strings

- Get a character with `charAt()`
- Get a substring with `substring()`
- Others: `split()`, `trim()`, `toLowerCase()`, etc
- Finding: `indexOf()`, `contains()`, etc
- Replacing: `replace()`, `replaceAll()`, etc