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.