The Character Class

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

- Property methods: `isLetter()`, `isDigit()`, etc.
- Conversion: `toString()` (a single character string!)

Escape sequences are used to represent characters that have a special meaning in Java syntax:

- `\'`, `"`, `\`, `\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:
  ```java
  String x = "foo";
  ```

- Concatenation with "+":
  ```java
  String y = x + "bar";
  ```

- **StringBuilder class**
Operations on Strings

- **Get length (number of characters):**
  
  ```java
  if (x.length() > 3) ...
  ```

- **Get a character with** `charAt()`

- **Get a substring with** `substring()`

- **Others:** `split()`, `trim()`, `toLowerCase()`, etc.

- **Finding:** `indexOf()`, `contains()`, etc.

- **Replacing:** `replace()`, `replaceAll()`, etc.