

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:

```
String x = "foo";
```

Concatenation with "+":

```
String y = x + "bar";
```

• StringBuilder class

Operations on Strings

- Strings are immutable: no operations modify original String
- Get length (number of characters):

```
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.