# **Arrays and Strings**

- Arrays and Strings are objects
- whey are specific and compiler knows about it (you can't create your own String with the same functionality)

#### **Arrays**

- An array is a container object that holds a fixed number of values of a single type.
- The length of an array is established when the array is created.
- After creation, its length is fixed.
- Each item in an array is called an element, and each element is accessed by its numerical index.
- Numbering begins with 0.

#### **Examples**

Multidimensional array is an array whose components are themselves arrays.

## **Strings**

public final class String implements java.io.Serializable, Comparable < String >, CharSequence {
 /\*\* The value is used for character storage. \*/
 private final char value[];
...

- The String class represents character strings.
- All string literals in Java programs, such as "abc", are implemented as instances of this class.
- Strings are constant; their values cannot be changed after they are created.
- String buffers support mutable strings.

# **String creation**

```
String str = "abc"; //autoboxing? no. It is a syntactic shugar.
//is equivalent to:
char data[] = {'a', 'b', 'c'};
String str = new String(data);
```

# **Strings comparison**

equals

## **String pool**

public native String intern();

When the *intern* method is invoked, if the pool already contains a string equal to this String object as determined by the equals(Object) method, then the string from the pool is returned.

Otherwise, this String object is added to the pool and a reference to this String object is returned.

native marks a method, that it will be implemented in other languages, not in Java.