Concept Guide: Details: String Object, Math Class, and other I/O housekeeping

Course: CS 200

Introduction to Java Programming, Comprehensive Version, 11th ed. Text

Chapter: 4 Mathematical Functions, Characters, and Strings

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| Concept/Topic: | Text Notes: | Lecture Notes: |
| Declaring String Object |  |  |
| String Values |  | <http://www.unicode.org/charts/> (Print it) |
| The Empty String |  |  |
| The Entire String Class |  |  <http://docs.oracle.com/javase/7/docs/api/java/lang/String.html>(Print it)List of ones to know: |
| How are Strings Stored? |  |  |
| the dot operator (.) |  |  |
| String Method:charAt(x); |  |  |
| String Method:length(); |  |  |
| String Method:indexOf(x); |  |  |
| String Method:comparing string objects |  | Methods have a return type…ex. main has a return type of void (no value is returned)The methods of the String Objectreturn boolean & int values |
| Concatenating Strings  |  |  |
| Working with substrings |  |  |
| String Bounds |  |  |
| The Escape Sequences |  |  |
| Methods of the CharacterClass |  |  |
| Casting betweenchar and NumericTypes |  | See text page 127 |
| Conversion betweenStrings and Numbers |  | parseIntparseFloatparseDouble“” //concatenate empty stringSee text page 137 |
| Math API:methods to know – * pow
* sqrt
* ceil
* floor
* round
* max
* min
* abs
* random
 |  | <http://docs.oracle.com/javase/1.5.0/docs/api/> |