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 Object  return boolean & int values |
| Concatenating Strings |  |  |
| Working with substrings |  |  |
| String Bounds |  |  |
| The Escape Sequences |  |  |
| Methods of the Character  Class |  |  |
| Casting between  char and Numeric  Types |  | See text page 127 |
| Conversion between  Strings and  Numbers |  | parseInt  parseFloat  parseDouble  “” //concatenate empty string  See 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/> |