Concept Guide: Basic Computation: The Main Method, Expressions and Data Storage (Variables\Constant\Literals) Course: CS 200

Introduction to Java Programming, Comprehensive Version, 12th ed. Text

Chapter: 2 Elementary Programming (pages: start of chapter to page 61)

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| Concept/Topic: | Text Notes: | Lecture Notes: |
| Programming Style |  | (use payroll.java handout) |
| Comments |  | (use payroll.java handout) |
| Case-Sensitive |  |  |
| Access Specifiers |  |  |
| Identifier |  |  |
| Class Rules with Files |  |  |
| Method Definition |  |  |
| Method Header |  |  |
| Method Body |  |  |
| Java Punctuation |  |  |
| Keywords/Reserved Words |  | (see additional handout) |
| Keywords and Identifiers – What’s the difference? |  |  |
| Rules for Naming Identifiers |  |  |
| Conventions for Naming Identifiers |  |  |
| Literal |  |  |
| Variable |  |  |
| Constant |  |  |
| API |  |  |
| System Class |  |  |
| print & println |  |  |
| Escape Sequences |  |  |
| File Extensions |  |  |
| Lab Time! |  | Flowchart then code & run!  Problem: Create a program to display the following text as illustrated, using only 3 lines, replacing the descriptions with your own data:  today’s date  your name, your partner’s name  your favorite food/least favorite food, your partner’s favorite food/least favorite food  **Using exactly:**  **1 string concatenator,**  **2 print commands, and**  **2 println commands.**  Working with a partner… |
| Primitive Data Types |  | (see additional handout) |
| The char Data Type |  |  |
| Two’s Complement Method (for storing negative integer values) |  |  |
| Variables: Declarations &  Initializations |  |  |
| Forcing Data Types |  |  |
| Variable Ranking |  |  |
| Type Casting |  |  |
| Operators:  Assignment  Arithmetic  Augmented/  combined assignment  increment (++)  decrement(--)  prefix position:  postfix position: |  | (see additional handout) |
| Operator Precedence |  |  |
| The Math Class |  |  |
| Scope |  |  |
| Lab Time! |  | Modify the payroll program to get the number of hours worked and the pay rate from user input. |