Variables, Operators, and Input

CSE 114 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING

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Announcements (cont.)

Topics in today's lecture:

• Variables

- Data types
- Operators
- Keyboard input (Scanner)

Reading assignment for this lecture: Chapters 2 and 3 of Downey (Think Java)

Topics

Program structure: See program_structure_1.txt

Variables and types: see Var.java

Basic data types in Java: see Types.java

Announcements

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How are you doing so far?

Dealing with integers and real numbers: see ${\bf MixedTypes.} {\bf java}$

Basic operators: see Operators.java

To read input from keyboard

- see Read.ja
- The "read-compute-print" or "input-compute-output" mode of computing

Packages: see Read.java

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Topics

• See Fahr1.java
• See Fahr2.java

Formatting output

Use the printf statement.
System.out.printf(format, items);

Where format is a string that may consist of substrings and format specifiers.

A format specifier specifies how an item should be displayed.

An item may be a numeric value, character, boolean value, or a string.

Each specifier begins with a percent sign (%).

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Frequently-used specifiers a boolean value true or false %с a character a decimal integer a floating-point number 45.460000 a number in standard scientific notation 4.556000e+01 %s "Java is cool" int count = 5; double amount = 45.56; System.out.printf("count is %d and amount is %f", count, amount); display count is 5 and amount is 45.560000 System.out.printf("%.1f", amount); // This forces only 1 number past the decimal point , returning 45.6

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