

## CS100J Spring 2005

- The Course Management System is not yet populated with students. We'll tell you when it is.
- Meet in lab today and tomorrow. At the back of the engineering library. Please don't be late.

### Quote for the day:

"I think there is a world market for maybe five computers."  
--Thomas Watson, chairman of IBM, 1943

## CS100J

### Reading for this lecture:

Sections 1.1, 1.2, 1.3. Lab will give you practice with concepts and details of 1.2, 1.3

**PLive:** Lesson 0, Lesson page 1.3, Activity 1-4.1.

**Summary of lectures:** On course home page, click on "Handouts" and then "Outline of lectures held so far".

### Today:

- Introduce expressions in Java (using DrJava)
- Show you around the CD **ProgramLive**

## Programming Languages

- **Computer program:** set of instructions for a computer to perform, or execute. Written in a programming language.
- **Machine (computer) instructions:**
  - Load memory location 60000 into register 2
  - Load memory location 80310 into register 3
  - Add register 2, register 3, put result in register 2
  - If register 2 > 0, take next instruction from location 40000
- **Use high-level language:** Java, C, C++, Matlab, Algol 60.
- **Compiler:** translates program written in Java into a machine language.

## Precedence of operators (page 23)

- Unary operators: + - !
- Binary arithmetic: \* / %
- Binary arithmetic: + -
- Arithmetic relations: < > <= >=
- Equality relations: = !=
- Logical and: &&
- Logical or: ||