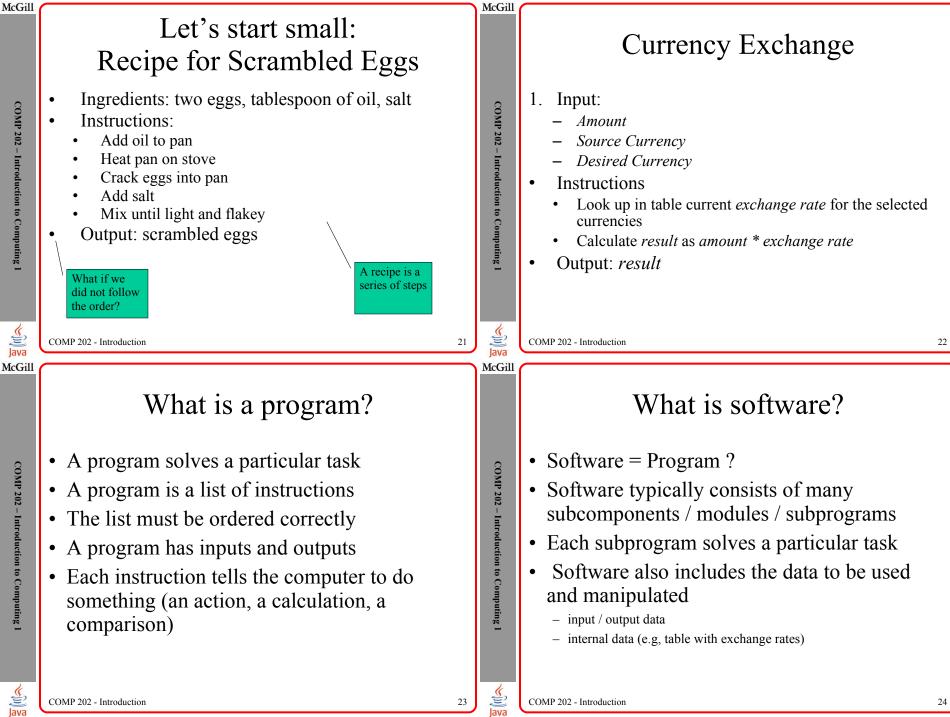
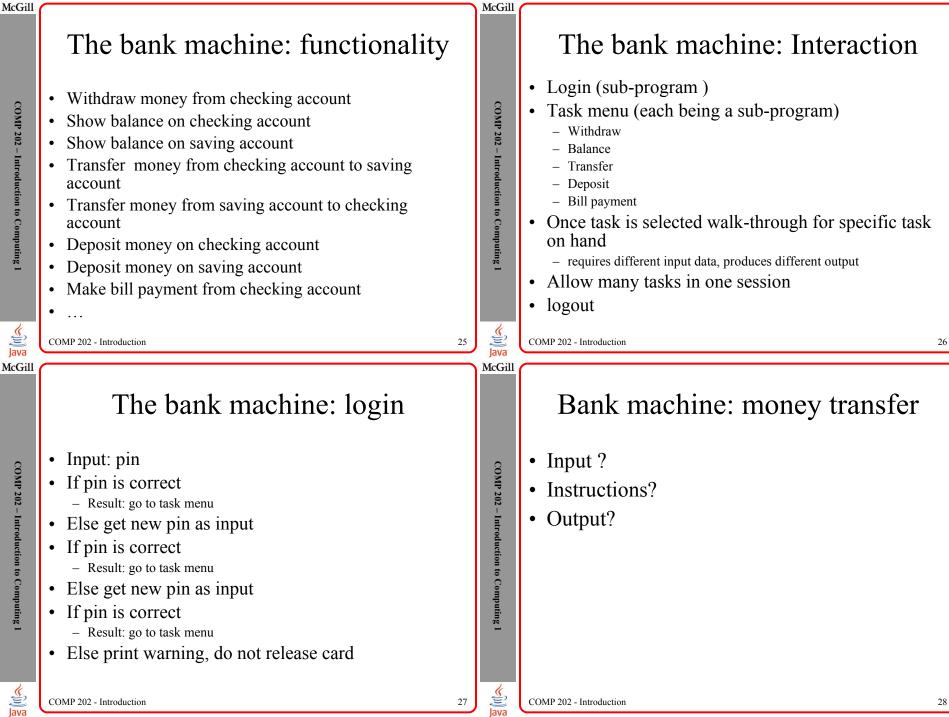


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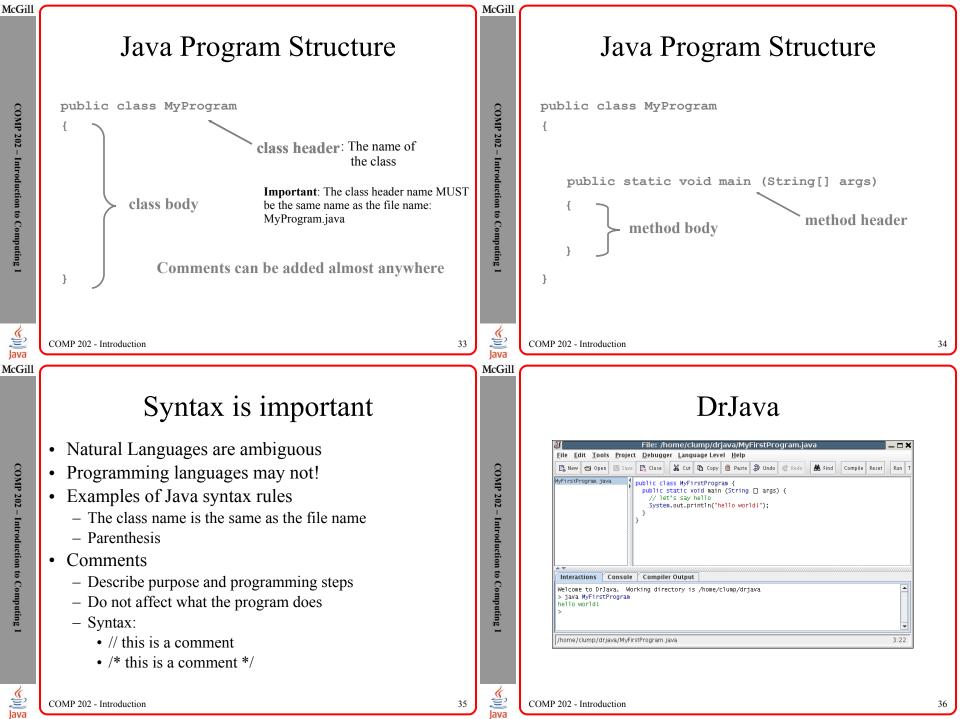




MCGIII		MCGIII	(
	Goal of this Course		The Java Programming language
COMP 202 – Introduction to Computing 1	<ul> <li>Translate a complex task into the software that executes this tasks <ul> <li>Structure the problem space into many small sub-tasks</li> <li>Write programs for each subtask</li> <li>Connect the programs to build software</li> </ul> </li> <li>At the end of course, you will be able to write a program that simulates a bank machine (and many other things) <ul> <li>Of course, since we don't have the machines themselves, no "real" money and "real" cards are involved</li> </ul> </li> </ul>	COMP 202 – Introduction to Computing 1	<ul> <li>A <i>programming language</i> specifies the words and symbols that we can use to write a program</li> <li>A programming language employs a set of rules that dictate how the words and symbols can be put together to form valid <i>program statements</i></li> <li>Java was created by Sun Microsystems, Inc.</li> <li>It was introduced in 1995 and has become quite popular</li> <li>It is an object-oriented language</li> </ul>
لن Java	COMP 202 - Introduction 29	(jii) Java	COMP 202 - Introduction 3
COMP 202 – Introduction to Computing 1	<pre>Our first Java Program public class MyFirstProgram {     public static void main (String [] args)     {         // let's say hello         System.out.println("hello world!");     } } Output: hello world</pre>	COMP 202 – Introduction to Computing 1	<ul> <li>Description of the program is a file</li> <li>Each program describes one <i>class</i></li> <li>A <i>class</i> describes a real-life concept <ul> <li>Bank machine, Calculator, System.out, MyFirstProgram</li> </ul> </li> <li>A <i>class</i> has data and methods (functions, operations)</li> <li>Example methods <ul> <li>main method (most classes have one main method)</li> <li>println</li> <li>In the example, we provide an implementation for main and we use println (somebody else has already programmed this method; we simply call it)</li> </ul> </li> <li>A method contains statements <ul> <li>Statements are the instruction steps that are executed when the program runs</li> </ul> </li> </ul>
	COMP 202 - Introduction 31	(lift)	COMP 202 - Introduction 3

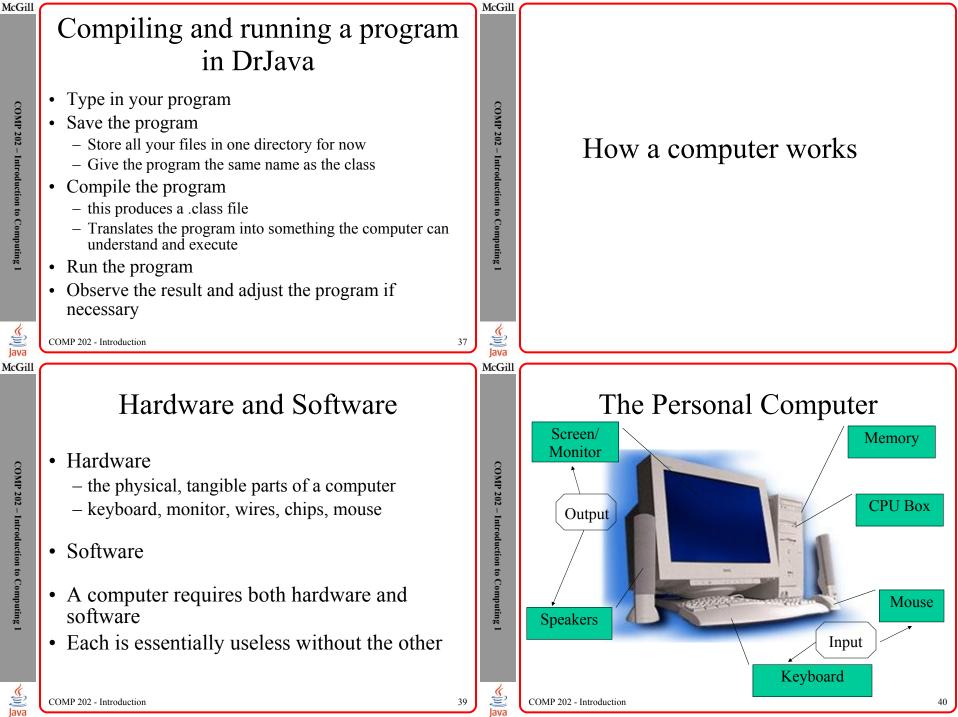
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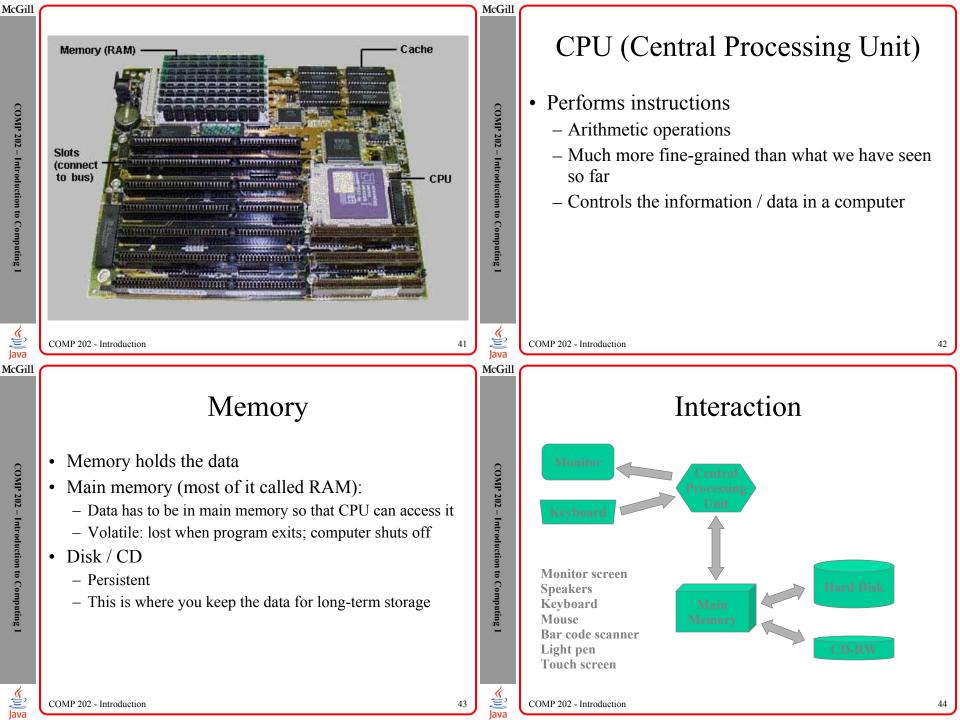
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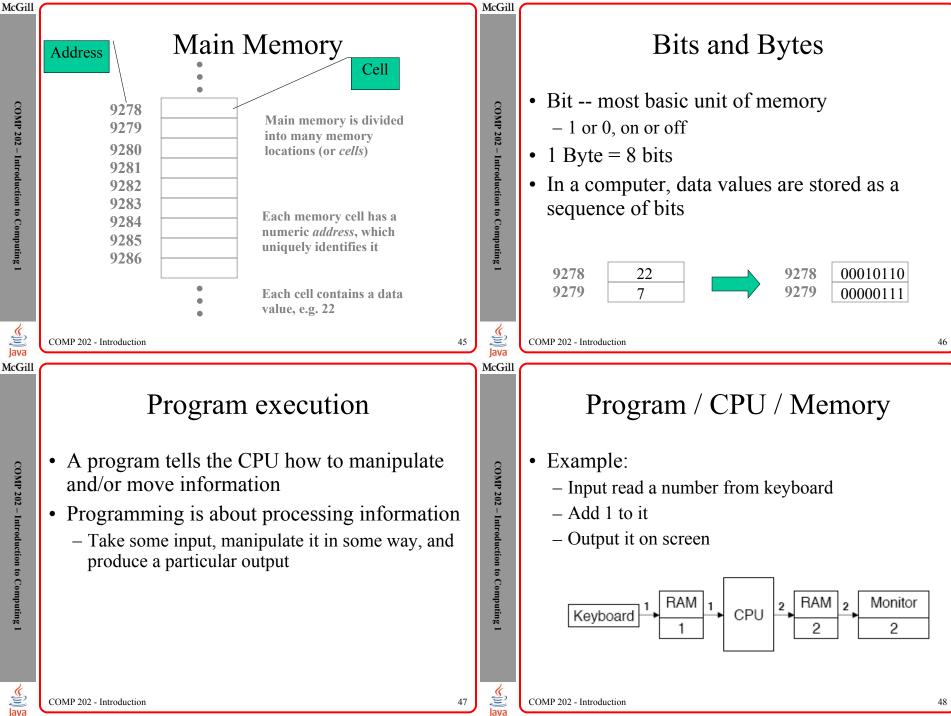


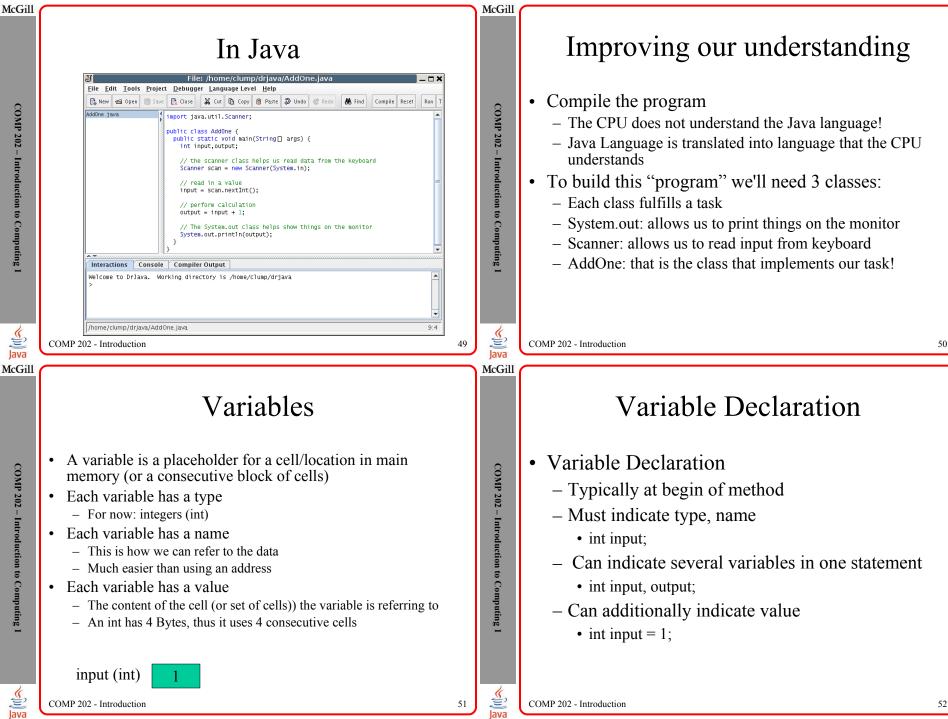
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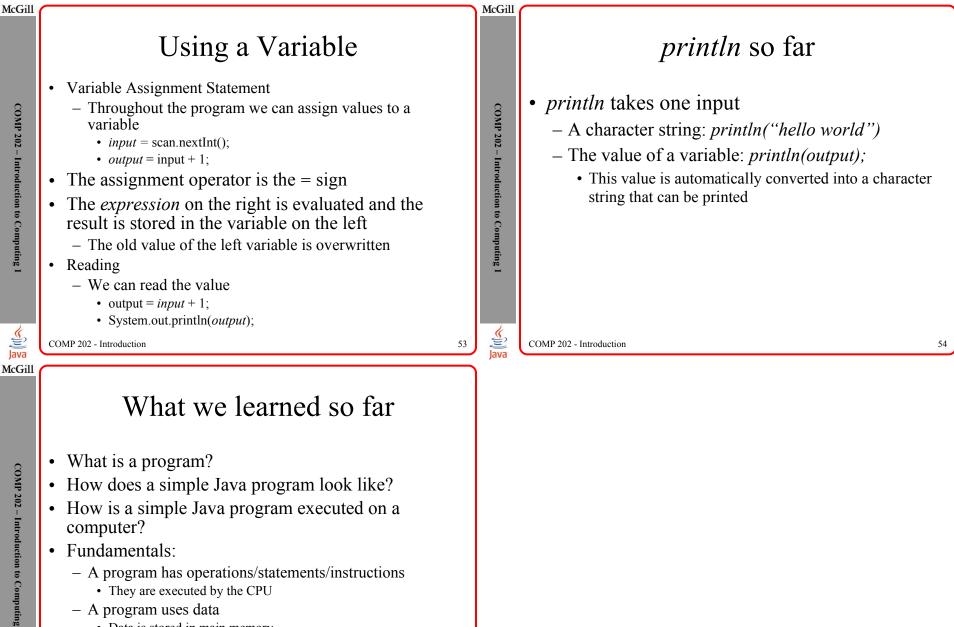
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- They are executed by the CPU
- A program uses data
  - Data is stored in main memory
  - Data is accessed via the variable concept
- Different tasks are implemented via different classes

چ Java

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