Announcements: Lecture text available at website in pdf; 
Due dates at course website, CourseWeek link. 
Read text Ch 4, do embedded problems 
Online survey - PLEASE do it (worth one OWL point..) 
Third programming assignment due next Mon night. Hand in through OWL;
Website: http://twiki-edlab.cs.umass.edu/bin/view/CS121Fall2010/WebHome

The learning resource center in the main library (10th floor) has begun its 
various support services, including tutoring and general review help for this 
class. To see the schedule, go to http://www.umass.edu/lrc/

Lecture Synopsis-- Talked last week about classes and objects, method 
application, building a driver given a class or classes; given a driver, 
building a class; Scanner, packages, and import statements; casting between char 
and int.

Scanner review: next() vs nextLine()

Suppose you’ve created a Scanner object called sca, and suppose you’ve made this input 

   She sent the kid home

(1) What’s the difference between these two statements, when the line above is input:

        String s = sca.next();
        Vs
        String s = sca.nextLine();

Suppose You’ve created a Scanner object called sca2, and suppose you’ve made this input 

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(2) What’s the difference between these two statements, when the line above is input:

        String s = sca2.next();
        Vs
        int k = sca2.nextInt();

(3) Explain what it takes to be able to use the Scanner class in a program.
The OilDriver class is below. It is supported by the OilTank class, which models a home heating oil tank, as indicated.

```java
public class OilDriver{
    public static void main(String[] args){
        // owner,capacity,price per gallon, how much in tank
        OilTank myTank = new OilTank("Hank",300,2.59,200);
        System.out.println(myTank.getCapacity());
        System.out.println(myTank.getPrice());
        myTank.setPrice(2.64);
        System.out.println(myTank.getAmtInTank());
        System.out.println(myTank.fillUpCost());
    }
}
```

(4) Write a version of the OilTank class that would make OilDriver work properly. (How is a class definition organized?) Describe the files that must be involved, and where they must go.

(5) If (int)’F’ has the value 70, what is the value of (‘F’+ 1)? What is the value of (‘F’*’F’)? What is the value of (char)(‘F’ + 2)?