121 Discussion #7 10/17/07

Announcements:
Ch 6 OWL assignment up. Programming assignment 4 up today.
Exams back next week – look good so far. Drop date: 10/29
Second half of class conceptually harder
Tuesday’s class: while looping, break, switch, wrapper
classes, JOptionPane.
TA Office hours: (in LGRT 213): M 12:30 - 2:30; Tu 1-5; W 3-5; Th 10-11, 2:45-3:45; F 12:30 - 4:30

Some while loop examples –

Write a while loop that prints 10-8-6-4-2 in a column.

Write a while loop that prints 1-4-9-16-25 in a column.

Write a method that’s passed a String of digits, and returns the square root of the number they represent.

Write a while loop that counts how many times it takes to triple a number, starting from 1, in order to exceed 10000.
(thus: 1, 3, 9, 27, …)

Revisit this (from text):

```
import javax.swing.JOptionPane;

public class SickorWell{

    public static void main(String[] args){
        String myTemp;
        double temp;
        myTemp = JOptionPane.showInputDialog("Enter your temperature");
        temp = Double.parseDouble(myTemp);
        if(temp > 98.6)
            JOptionPane.showMessageDialog(null,"you are sick!");
        else
            JOptionPane.showMessageDialog(null,"you are well!");
    }
}
```

What does Double.parseDouble(…) do? What’s the relationship between double and Double? int and Integer?
Now write DoubleOrHalf – you enter an int using JOptionPane. If odd – double it (in a JOptionPane); if even, halve it.

#1 – Code the Weather class
public class Tester
{
    public static void main(String[] args)
    {
        int maxTemp = 57;
        int minTemp = 40;
        Weather today = new Weather("March", 3, 57, 40); // March 3rd
        System.out.println("high temp for today was " + today.getHighTemp());
        System.out.println("low temp for today was " + today.getLowTemp());
        System.out.println("Temperature swing today was " + today.getTempSwing());
        // temp swing: high-low temp
        System.out.println("Today's date is " + today.getMonth() + " " + today.getDate());
    }
}

output from execution of main:

high temp for today was 57
low temp for today was 40
Temperature swing today was 17
Today's date is March 3