Recitation 2, 02/03/2003

1.   How to turn in programming homework.
Send email to 1200hw@earthlink.net
Use this format:
Subject: homework1
The homework is sent with the code and executable as attachments.
In the main part of the email, include your recitation time (this is the one you registered for, but you can still attend any recitation), your student ID number and your name.
If someone is still registered in the 3:00-3:50 recitation, talk with TA and switch to another recitation section (9-12).

Example:
Subject: homework1
Message:
9:00-9:50am, 888-88-8888, Ying Chen
Attachments:
HelloWorld.java

2.   Reading assignment: textbook Chapter 1.4, and chapter 3
What is a variable?
An item of information in memory whose location is identified by a symbolic name.
What are the basic type of variables:
int, float, double, boolean and character
What kind of a variable is n?
int n = 2;
n =n +1;

3. Example 1

Given rectangle whose height is 10 and width is 5, we want to calculate the area.

The math formula is
area = height * width;
height= 10;
width=5;
area = height * width = 10 *5 = 50;

the code is:
```
import java.io.*;
public class example
{
    public static void main(String[] args) throws IOException
    {
        /* Sets up a text input stream from standard input */
        BufferedReader stdin = new BufferedReader
            (new InputStreamReader(System.in));
        int height, width, area;
        height = 10;
    width = 5;
    area = height * width;
    /* output the result */
    System.out.println("The result is: " +  area);
    /* keep the window open*/
        stdin.readLine();
    }
}
```

4. Example 2

Ask the user to decide the height and width for the rectangle.

The code is :

```
import java.io.*;
public class example
{
    public static void main(String[] args) throws IOException
    {
        /* Sets up a text input stream from standard input */
        BufferedReader stdin = new BufferedReader
            (new InputStreamReader(System.in));
        int height, width, area;
      System.out.println("type in height:");
        /* read the value of height */
        height = Integer.parseInt(stdin.readLine());
        System.out.println("type in width:");
        /* read the value of width */
        width = Integer.parseInt(stdin.readLine());
        area = height * width;
        /* output the result */
        System.out.println("The result is: " +  area);
    /* keep the window open*/
        stdin.readLine();
    }
}
```