121 Discussion #2 9/22/05

Announcements:
Ch3 will be up today. Read it, do hwk,
Second programming assignment up today, due next friday
Office hours for TAs now posted
Honors section first mtg: 11:15 AM Friday (9/23). Room: CS BLDG 142
Captive Lab session: TBA

You can log into OWL directly here: owl.oit.umass.edu/

Dr Java note: On Windows machines Dr Java will ask you to locate the
file "tools.jar", which is typically located in:
C:Program Files\Java\jdk1.5.0_04\lib\tools.jar

Big idea of the week: we’re working at two different levels: a
statement level – println, assignment, for atomic jobs;
and an object level – for high-level organization.

1. working with cheeses..

Here’s the Cheese class.

```java
public class Cheese{
    String name;
    int amount; // in grams

    public Cheese(String which, int amt){
        name = which;
        amount = amt;
    }

    public String getName(){return name;}
    public int getAmount(){return amount;}
    public void setAmount(int amt){amount = amt;}
}
```

make a Cheese object called inMyFridge that’s 200 grams of Brie.
Write a statement that fixes an error: you really have 300 grams of Brie

2. Suppose you encounter the following main method in a driver (tester) class:
```java
public static void main(String[] args){
    Teenager kid = new Teenager("jackie", 17, "downright gloomy");
    System.out.println(kid.getMood()); // prints downright gloomy
    kid.incrementAge(); // kid's age goes to 18
}
```
Write the Teenager class
3. The Tablet class (a pad of paper):
   public class Tablet{
       String color;
       int pages;

       public Tablet(String tabletColor, int pp){
           color = tabletColor;
           pages = pp;
       }

       public String getColor(){return color;}
       public int getpages(){return pages;}
       public void setPages(int pp){pages = pp;}
       public void decPages(){pages = pages - 1;}
   }

   In a TabletDriver class:

   Make a yellow tablet with 500 pages
   Now tear off a page
   Now tear off 5 pages
   Make a white tablet with 250 pages
   Write a statement that reports the total number of pages on your desk (in the two tablets)

4. An assignment statement problem: chart the variable values for each line
   int a,b,c;
   a = 2; b = 7; c = 2;
   a = a + a;
   a = a + a;
   a = b + a;
   c = a - c;
   a = a + b + c;

   If there's time: using Java class/object machinery, how would you model a picture frame?