

IST 256  
In-Class Exercises Week 3 – Monday, February 1, 2010

**Exercise 1. Reviewing Variables, Types and Assignment**

Suppose that you have the following program:

```
int hours;  
double bonus = 50.00  
double payamount, payrate;  
  
hours = 40;  
payrate = 20.00;  
  
payamount = hours * payrate;  
payamount = payamount + bonus;
```

Find a declaration statement in the program.  
For the one that you chose, what is the type?

What variable name or names are declared?

If there is an initialization, what is the value?

Choose an assignment statement. What variable is being assigned to?

Consider the two assignment statements to the variable payamount.  
What value is assigned to payamount in the first assignment?

What value is assigned to payamount in the second assignment?

## **Exercise 2. Writing a simple Java application with an If statement:**

### **1. Open NetBeans and create a new project**

After starting NetBeans, go to the File -> NewProject. On the first page, leave Java and Java Application selected and on the second page, type the name of a project, for example TestIf.

### **3. Write application code in the method called main.**

Add the following code right after the comment with TODO: (you may have to re-type the quote characters if you copy and paste.)

```
int age;
String drink;
age = ??;
if (age > 20) {
    drink = "wine";
}
else {
    drink = "soda";
}
System.out.println("you get " + drink);
```

Type in a value for age, replacing ??

**Run this program** by the little green triangle on the top bar.

**Try different values for age, be sure and try the values 20 and 21.**