Lab 1

This week's lab is different from any other lab you will have. In all subsequent labs, you will demonstrate the work you have done over the week. It is an opportunity to show off your work and to get help from your teachers. The teachers will also grade the work show and the total of these grades will be the grade on the practical part of the course. Today, however, you have not yet been assigned any work to do, so we cannot expect any.

For Object Oriented Programming, you will need **computer you can use at home,** because there will not be enough time in the lab for you to do all of the lesson. A laptop is best because you can bring it to class and need not worry that the programs you wrote at home will not work on the computers in the lab.

Bring you laptop and pen drive to lab class next week. It will be easier for you to carry your work back and forth on your laptop. Also, it will be easier for you to demo the work you have done on the computer on which you have done it. You will have an account on an AWS server from which you can run your projects, but you will need to use on of the lab computers if you do not bring your own.

Tasks for this week

The lab for this week will be to open a Scrapbook page and try out various C expressions and statements to see the similarities and differences between C and Java. You will demonstrate the page next week. If you do not have a laptop with you, use one of the lab computers. Save your work on a pen drive to show your teacher next week.
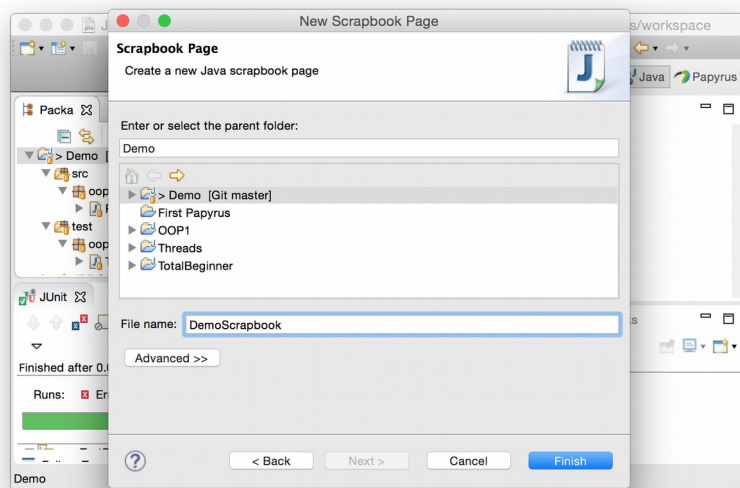
To open a scrapbook page:

1. Right click on your project. Go to New > Other
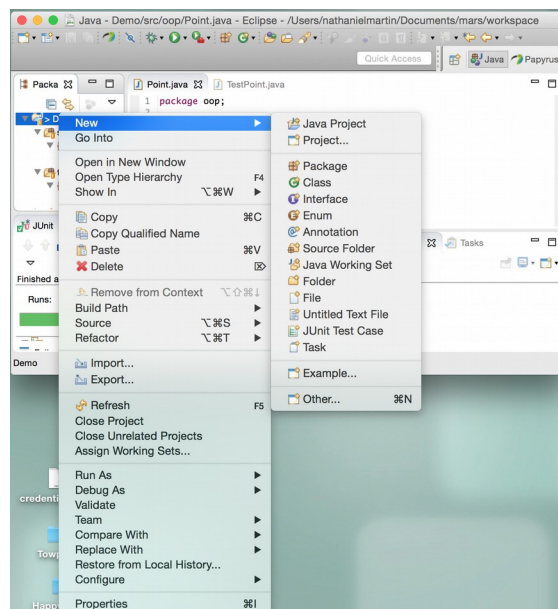
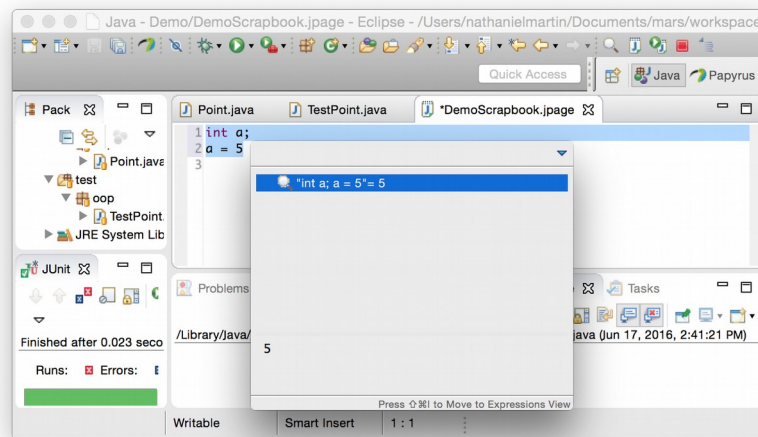2. Select Java Run/Debug > Scrapbook Page. Click Next.
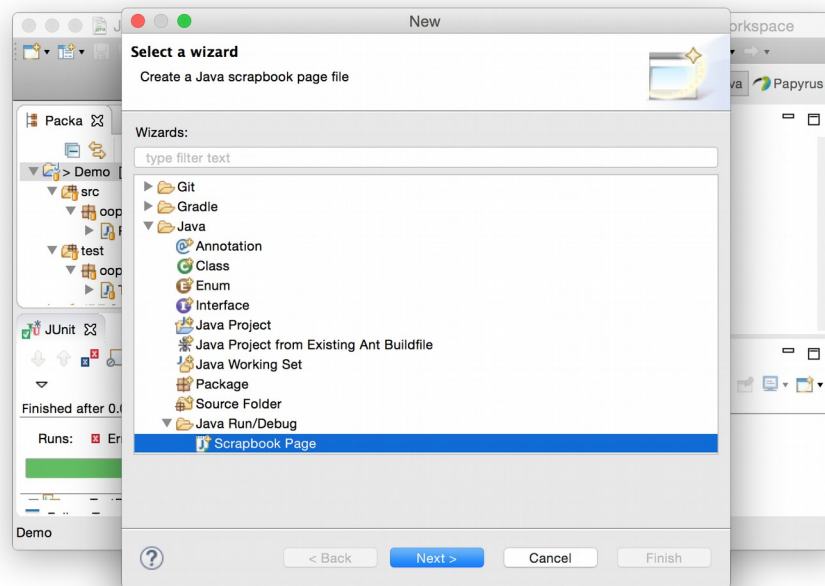
3. Select a name and hit finish.

4. A new buffer will appear in your Eclipse window with the name you enters (e.g. DemoScrapbook.jpage).

5. Type expressions into the buffer. Highlight an expression and click

A window will pop up with the value of the expression in it. Note that a = 5 is an expression. The statement int a; is evaluated before the expression.

1. Declare an integer variable called n.

2. Set the n to 5;

3. Declare an integer array called a

4. Write a loop that initializes a to the squares of the first five integers.

5. Write a loop that calculates the average of the values of a.

6. Write a loop that will move the items in array a into another array called b so that the order of b is the reverse of the order of a.

7. Write a loop that will calculate the first 10 Fibonacci numbers.