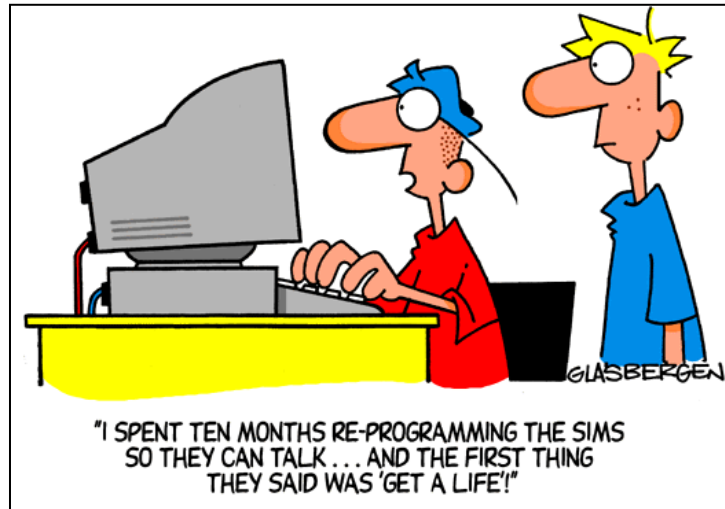


Lab – Installing Java JDK and jGrasp

10 points. See Canvas
for due date. Submit in
class, on paper.



1. Download the Java JDK from Oracle/Sun Microsystems:

Go to Oracle's site for Java SE: [Java SE Download](#)
Select your platform
Download/Install

2. Set your path environment variable to include the location of your Java utility programs (like javac.exe)

Windows:
Go to Control Panel
Select 'System'
Click the 'Advanced System Settings' link to bring up 'System Properties' dialog
Click the 'Advanced' tab
Click the 'Environment Variables' button
Under 'System variables' select 'Path'
Click 'Edit...'
Click the 'Variable Value' box and right-arrow to the end
Type a semi-colon (;)
Type/paste the full path name where your Java utility programs are installed
(for example: 'C:\Program Files\Java\jdk1.8.0_05\bin')
Click 'OK' and 'OK' again

3. Confirm your installation:

Start a command session
Go to the 'Run' button
Type 'cmd' and click 'OK'
At the command prompt, type 'javac' and press 'Enter'
You should see help text for the Java compiler:

```
C:\Documents and Settings\Chris Peters>javac
Usage: javac <options> <source files>
where possible options include:
  -g                      Generate all debugging info
  -g:none                 Generate no debugging info
  -g:{lines,vars,source}  Generate only some debugging info
  .
  .
  .
  -Akey[=value]           Options to pass to annotation processors
  -X                      Print a synopsis of nonstandard options
  -J<flag>                Pass <flag> directly to the runtime system
```

4. Create a Java ‘Hello world’ program using a simple text editor like Notepad:

Start Notepad

Key the following Java program statements:

```
public class Test
{
    public static void main(String[] args)
    {
        System.out.println("Hello world");
    }
}
```

Save your program as ‘Test.java’ in a directory with a short name
(note the file name must match the class name)

Start a command session as above

Navigate to the directory where you saved your Test.java file

At the command prompt, key ‘javac Test.java’

If all is well, you shouldn’t see any messages (silent compile)

If errors are reported, correct with Notepad/Textpad

Run your program

At the command prompt key ‘java Test’ (case sensitive)

You should see:

```
C:\Temp>java Test
Hello world
```

5. Install jGrasp

Go to www.jgrasp.org

Click ‘Download jGRASP’ link on right-hand side

Scroll down and select your platform

Click ‘Run’ and perform standard installation

6. Test jGrasp

Launch jGrasp

In the file explorer window, navigate to the directory containing your Test.java file
Select the Test.java file and open it for editing

Change the line

```
System.out.println('Hello world');  
to  
System.out.println('Hello jGrasp');
```

Compile the file by clicking the green plus sign icon

Run the program and confirm the output in the console window located at the
bottom of the jGrasp IDE

Print your Test.java program, add your name and turn in to receive lab credit.
Do not submit to Canvas.