

Getting, installing and testing the Java SDK

Installing SDK

- Make sure you have room!
- Download the appropriate file from java.sun.com:
 - JDK Standard Edition 5.0
 - Don't just get JRE, it doesn't include a compiler!
 - you don't need NetBeans (includes an IDE).
- Run the file (start the installation).
- Optional: download and install documentation
 - Java 2 SDK Standard Edition documentation.

PATH Environment Variable

- To run the tools (compiler, JVM, etc) from the DOS command line you need to add the location of the tools to your PATH.
 - Follow the instructions found in the documentation at:
 - `http://java.sun.com/j2se/1.5.0/install-windows.html`

CLASSPATH environment variable

- The Java compiler and VM use the CLASSPATH environment variable to decide where to look for class definitions (Java code).
- For now it's enough the Java will look in the "current working directory".
- If your CLASSPATH is already set to something, you may need to add "." to it.

(*"." is the current directory*).

Testing things

- Typically you need to reboot to have any changes to the PATH take effect.
- Open a shell window (command prompt for Win2K and up).
- Type `java -version`. If you get "unknown command" or something like that, your PATH is not right...

Testing a Java Program

- In general, you do the following:
 - create a folder to hold the java code.
 - use an editor (notepad will work, but other editors will work better – check out editplus at www.editplus.com) to create a Java program.
 - compile the program (using javac)
 - run the program (using java)

Help getting started

- on the web at:

<http://java.sun.com/learning/new2java/index.html>

Goes through all the steps, explains how to resolve common problems, etc.

IDE Options

- IDE: *Integrated Development Environment*
- Sun has one: NetBeans IDE
- Eclipse is an open source IDE written in Java.
 - www.eclipse.org
 - latest version supports Java 5.0.
 - Eclipse can also be used with other languages!

HW#1

- Due Jan 25th (our next meeting).
- Get JDK installed and working.
- Modify a (simple) sample program.
- Compile and run the program.
- Submit your results and code.
 - get used to the HW submission system.
- Everyone should get 100!