

Introduction to Java

Handout-1a

Getting Started

- Objectives
 - Download and install Java 2 platform
 - Java 2 SDK
 - JRE (Java Runtime Environment)
 - Become familiar with an IDE
 - Eclipse (from <http://www.eclipse.org>); will be used in this class
 - JBuilder (from <http://www.borland.com>)
 - NetBeans (from <http://www.netbeans.org>)
 - Other

Editing files

- You can use Notepad, Word, any other editor you want
- Recommend downloading and installing the cygwin tools (from <http://www.cygwin.com>)

Download Java 2 platform

- Download
 - <http://java.sun.com/j2se/1.4.1/download.html>
 - Get SDK for your platform (Windows, Unix, etc.)
 - Get JRE for your platform (Windows, Unix, etc.)
 - Get J2SE-1.4.1 Documentation

Download Java 2 platform (cont'd)

- JRE contains:
 - No compiler
 - No debugger
 - No tools
- JRE is used primarily to execute compiled Java programs
- You *may not* re-distribute the SDK with your applications (see Sun's licensing agreement)
- You may re-distribute the JRE

Get ready

- Create a directory where you'll do your work for this class: (e.g. `c:\cs402\` in Windows, or any other location you wish)

Install Java 2 platform

- Install JRE
- Install SDK
- Configure your environment variables (PATH and CLASSPATH)
 - see documentation at <http://java.sun.com/j2se/1.4.1/install-windows.html> (for Windows)
 - The PATH needs to be set such that you can run the tools (java, javac, etc.) from any directory

Write your first program

- Type the following into a file named HelloWorldCommandLine.java and save the file in the directory where you do your work (C:\cs402\)

```
public class HelloWorldCommandLine {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

- Hint: depending on what editor you use the file may be named something like HelloWorldCommandLine.java.txt, if this is the case then you have to rename the file such that the extension is .java

Compile and run

- Open a ‘command’ shell
- Compile your program:
 - C:\cs402> javac HelloWorldCommandLine.java
 - A new file named HelloWorldCommandLine.class will be created in the directory
- Run your program:
 - C:\cs402> java HelloWorldCommandLine

Java 2 Platform

