

CSCI 1990/2990 Assignment 1 Spring 2009– Running Java Programs – Due February 10

Java is already on the machines in the lab, so you already have the Java JDK there. If you are using your computer, you can download it for free from Sun Microsystems. To get the free download for a PC with a Windows operating system, follow these instructions:

- Go to <http://java.sun.com/javase/downloads/netbeans.html> .
- Click the Download button to the right of “JDK 6u12 with NetBeans IDE 6.5 Bundle.”
- Follow the instructions from that website to install the software.

To use the Java JDK using the command line version of Java (not the NetBeans IDE), do the following:

1. Get to the command prompt by clicking on **Start** then **Run**, and then type **cmd** and press the **Enter** key. IF you see the **L:>** prompt, type **c:** and press **Enter**. Type **cd \progra~1\java\jdk1.6.0_04\bin**.
2. Get into the editor by typing **notepad**. Type the program on the next page.
3. Save it by selecting **File** then **Save**.
 - If you're in the lab, you'll need to save the program in the **L:** drive by clicking on the down arrow in the **Save in** box, then select My Computer, and then select something that includes L: and your username.
 - Click the down arrow in the **Save as type** box and click on **All Files** (not Text Documents (*.txt)).
 - If you're on your computer, just make sure that the **Save in** box refers to the **bin** folder. If it doesn't, find the **bin** folder (it'll probably be under C:\Program Files\Java\jdk1.6.0_12).
 - Type **Addition.java** in the **File name** box. Remember that Java is case-sensitive.
4. Exit Notepad by selecting **File** then **Exit**.
5. To compile Addition.java, at the command prompt type the following:
 - If you're in the lab, you'll type **javac L:\Addition.java**
 - If you're on your computer, you'll type **javac Addition.java**
6. To run Addition.java do the following:
 - If you're in the lab, type **java -classpath L: Addition WITH NO EXTENSION**.
 - If you're on your computer, type **java Addition WITH NO EXTENSION**.
7. Exit the command prompt by literally typing **exit** and then press the **Enter** key.
8. E-mail Addition.java to me as an attachment.

9. Now let's use the NetBeans IDE to do the same thing:

1. Launch NetBeans.
2. Select File, then New Project.
3. Click Categories: Java, then Projects: Java Application, then Next
4. For Project Name, type whatever you'd like.
5. For Project Location, browse for whatever folder you want to save the project in, then click Open.
6. Uncheck "Set as main project," and uncheck "Create main class."
7. Click Finish. Now you have created the project.
8. To create the Java application, select File, then New File.
9. Click Categories: Java, then File Types: Empty Java File, then Next.
10. For Class Name, it must be whatever you plan to use when you type "public class ClassName".
11. Leave the rest as default, and select Finish
12. Type the file (or in this case since you've already typed it, just copy and paste the Java file you have just typed), and click the Save All button
13. To compile select Build, then Build Main Project (or click the Hammer icon).
14. To run select Run, then Main Project (or click the Arrow icon).

```
// Addition.java
// Addition program that displays the sum of two numbers.
import java.util.Scanner; // program uses class Scanner

public class Addition
{
    // main method begins execution of Java application
    public static void main( String args[] )
    {
        // create Scanner to obtain input from command window
        Scanner input = new Scanner( System.in );

        int number1; // first number to add
        int number2; // second number to add
        int sum; // sum of number1 and number2

        System.out.print( "Enter first integer: " ); // prompt
        number1 = input.nextInt(); // read first number from user

        System.out.print( "Enter second integer: " ); // prompt
        number2 = input.nextInt(); // read second number from user

        sum = number1 + number2; // add numbers

        System.out.printf( "Sum is %d\n", sum ); // display sum

    } // end method main
} // end class Addition
```