**Getting Started**

**Workshop 1**

**In this workshop, you’ll learn:**

* How to start a simple java application.

1. **Updating the PATH Environment Variable**

If you do not set the PATH variable, you need to specify the full path to the executable file every time you run it, such as:

C:\> "C:\Program Files\Java\jdk1.8.0\bin\javac" MyClass.java

It is useful to set the PATH variable permanently so it will persist after rebooting.

To set the PATH variable permanently, add the full path of the jdk1.8.0\bin directory to the PATH variable. Typically, this full path looks something like C:\Program Files\Java\jdk1.8.0\bin. Set the PATH variable as follows on Microsoft Windows:

1. Click **Start**, then **Control Panel**, then **System**.
2. Click **Advanced**, then **Environment Variables**.
3. Add the location of the bin folder of the JDK installation to the PATH variable in **System Variables**. The following is a typical value for the PATH variable:
4. C:\WINDOWS\system32;C:\WINDOWS;C:\Program Files\Java\jdk1.8.0\bin

**Note:**

* The PATH environment variable is a series of directories separated by semicolons (;) and is not case-sensitive. Microsoft Windows looks for programs in the PATH directories in order, from left to right.
* You should only have one bin directory for a JDK in the path at a time. Those following the first instance are ignored.
* If you are not sure where to add the JDK path, append it.
* The new path takes effect in each new command window you open after setting the PATH variable.

1. **Let us look at a simple code that would print the words *Hello World*.**

public class MyFirstJavaProgram {

/\* This is my first java program.

\* This will print 'Hello World' as the output

\*/

public static void main(String []args) {

System.out.println("Hello World"); // prints Hello World

}

}

Let's look at how to save the file, compile and run the program. Follow the steps given below:

* Open notepad and add the code as above.
* Save the file as: MyFirstJavaProgram.java.
* Open a command prompt window and go o the directory where you saved the class. Assume it's C:\.
* Type ' javac MyFirstJavaProgram.java ' and press enter to compile your code. If there are no errors in your code, the command prompt will take you to the next line (Assumption : The path variable is set).
* Now, type ' java MyFirstJavaProgram ' to run your program.
* You will be able to see ' Hello World ' printed on the window.

C : > javac MyFirstJavaProgram.java

C : > java MyFirstJavaProgram

Hello World

1. Modify the above program and print out your information to screen, including: your full name, your class name, your student id number and your age.