# Lab 1, Part A - Entering and Running JAVA programs using a Text Editor and Command Prompt

1. Open a simple text editor and type in the following program:

public class HelloPrinter

{

public static void main(String[] args)

{

System.out.println("Hello, World");

}

}

1. Open a console window and create an empty directory for your work. Save your work in a file called HelloPrinter.java. Pay attention to the case of letters in your program and in the name of the file. Compile your program from the console window by typing the following command:

javac HelloPrinter.java

What files are contained in the directory after you have compiled the program?

1. Run your program by typing the following command:

java HelloPrinter

1. The more errors you make, the quicker you will become an expert Java programmer. Each error can teach you an important lesson. So … let’s make a few errors by experimenting with the HelloPrinter program. Introduce the following changes (a – d) into your source code file and record the message, your correction, and final output in the table at the end of this document.

a) Try deleting the only semicolon. What happens when you compile? Fix the error.

b) Try deleting the left brace under the main method and compiling your program. What happens? Fix the error.

c) Delete the first left brace in the program. What happens when you compile? Fix the program.

d) Change main to Main. Does the program compile? What happens if you run the program from the console window? What is the problem?

e) Change the file name to Helloprinter.java without changing any of the source code. What happens when you compile? Fix the program.

f) Add blank lines, spaces, and tabs in various locations throughout your source code file without changing any of the text or file name. What happens when you compile?

1. Upload your source code file, HelloPrinter.java, and your completed table of errors and corrections to the assignment link in Blackboard.

|  |  |  |  |
| --- | --- | --- | --- |
| **Error Introduced** | **Compiler/Error Message** | **Correction** | **Output** |
| **a** |  |  |  |
| **b** |  |  |  |
| **c** |  |  |  |
| **d** |  |  |  |
| **e** |  |  |  |
| **f** |  |  |  |