

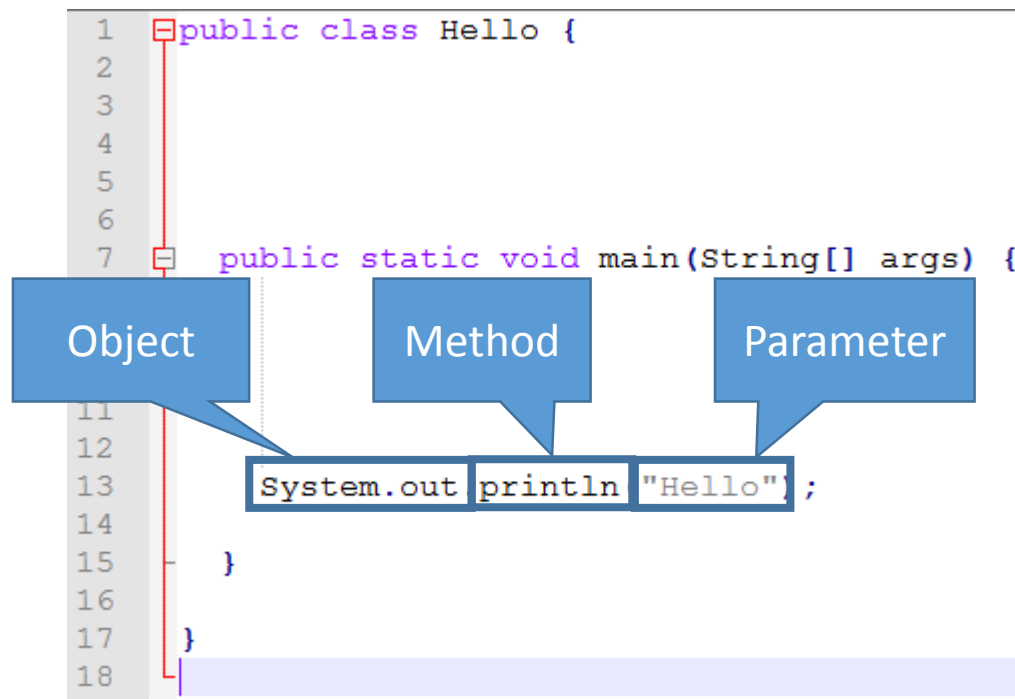
Java Review Intro

CPSC 1181 – O.O.

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Langara.

THE COLLEGE OF HIGHER LEARNING.



Expressions of
the correct types

objectName.methodName(parameters...)

Comments

```
// Filename: Hello.java  
// Written by <your name>  
// Written on <today's date>
```

```
/**This program demonstrates the use of the println()  
method to print the message Hello, World! */
```

```
public class Hello  
{  
    // Add comments where it is necessary.  
    ...  
}
```

- Program Comments

- Non executing statements that you add to a program for the purpose of documentation

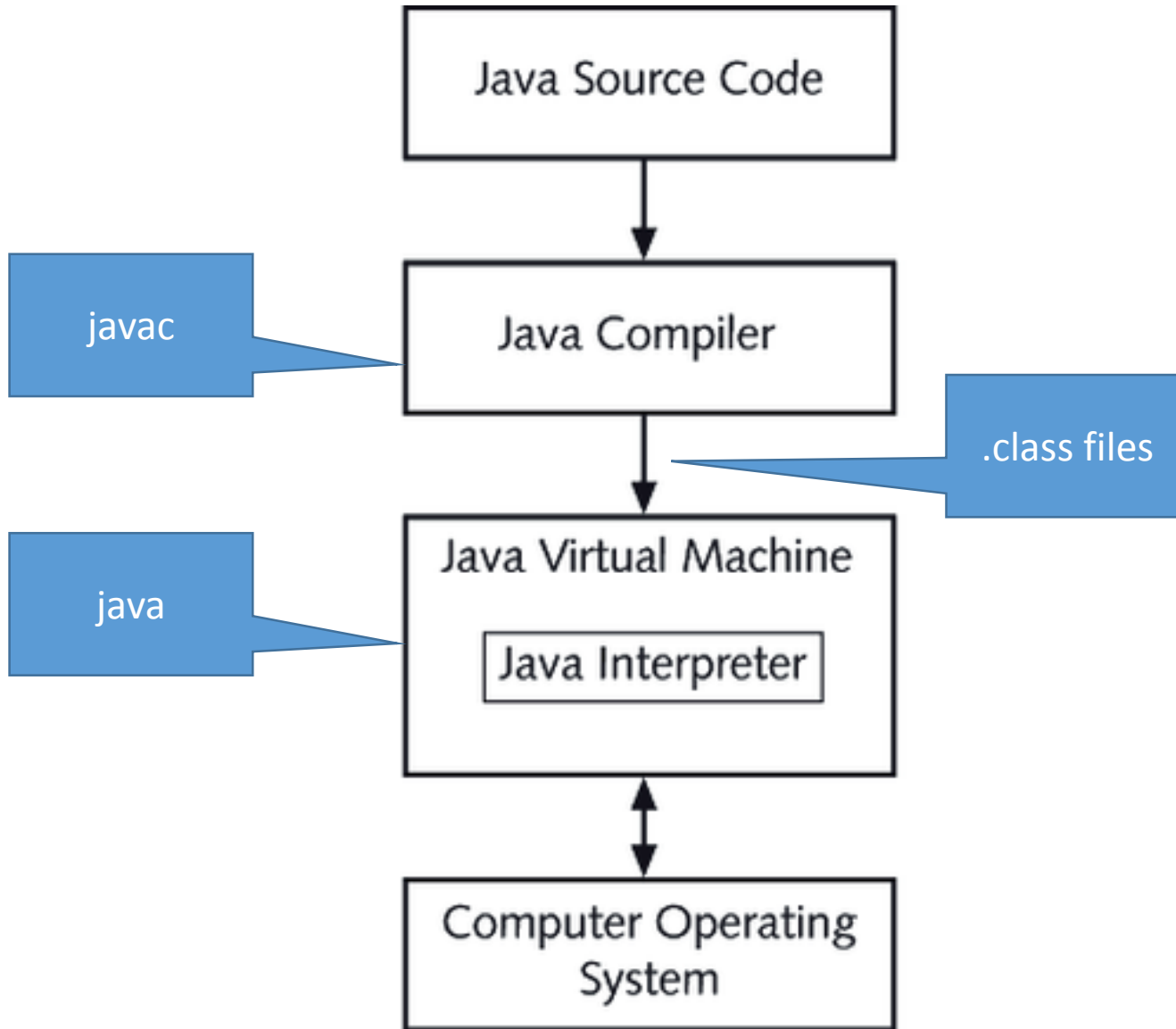
- Line comments- //

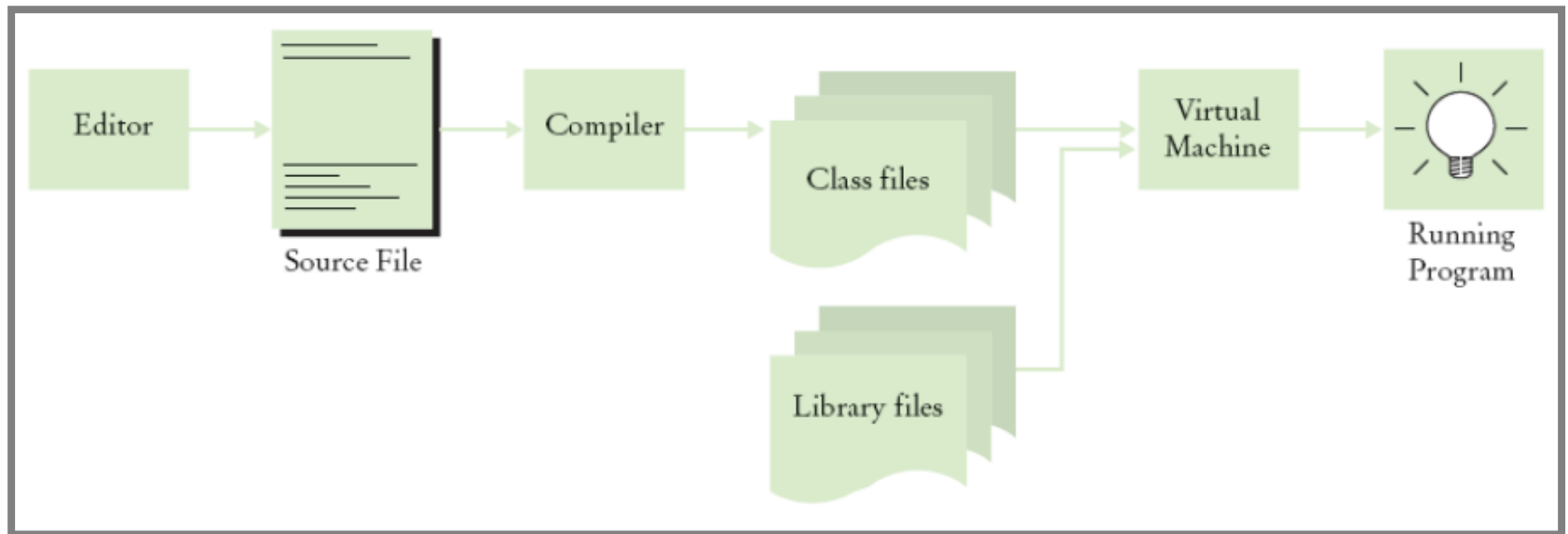
- Block comments - /* */

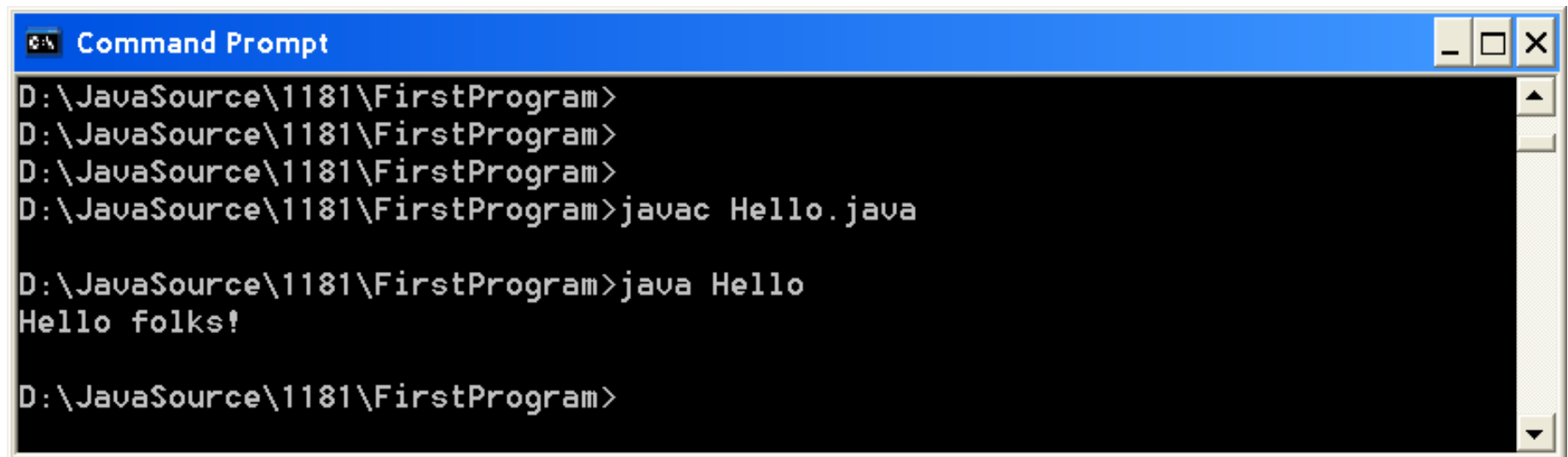
- javadoc comments - /** */

- Compiler: a program which translates one programming language into another.
- Interpreter: a program that directly executes, i.e. performs, instructions written in a programming or scripting language, without previously compiling them into a machine language program. -wiki

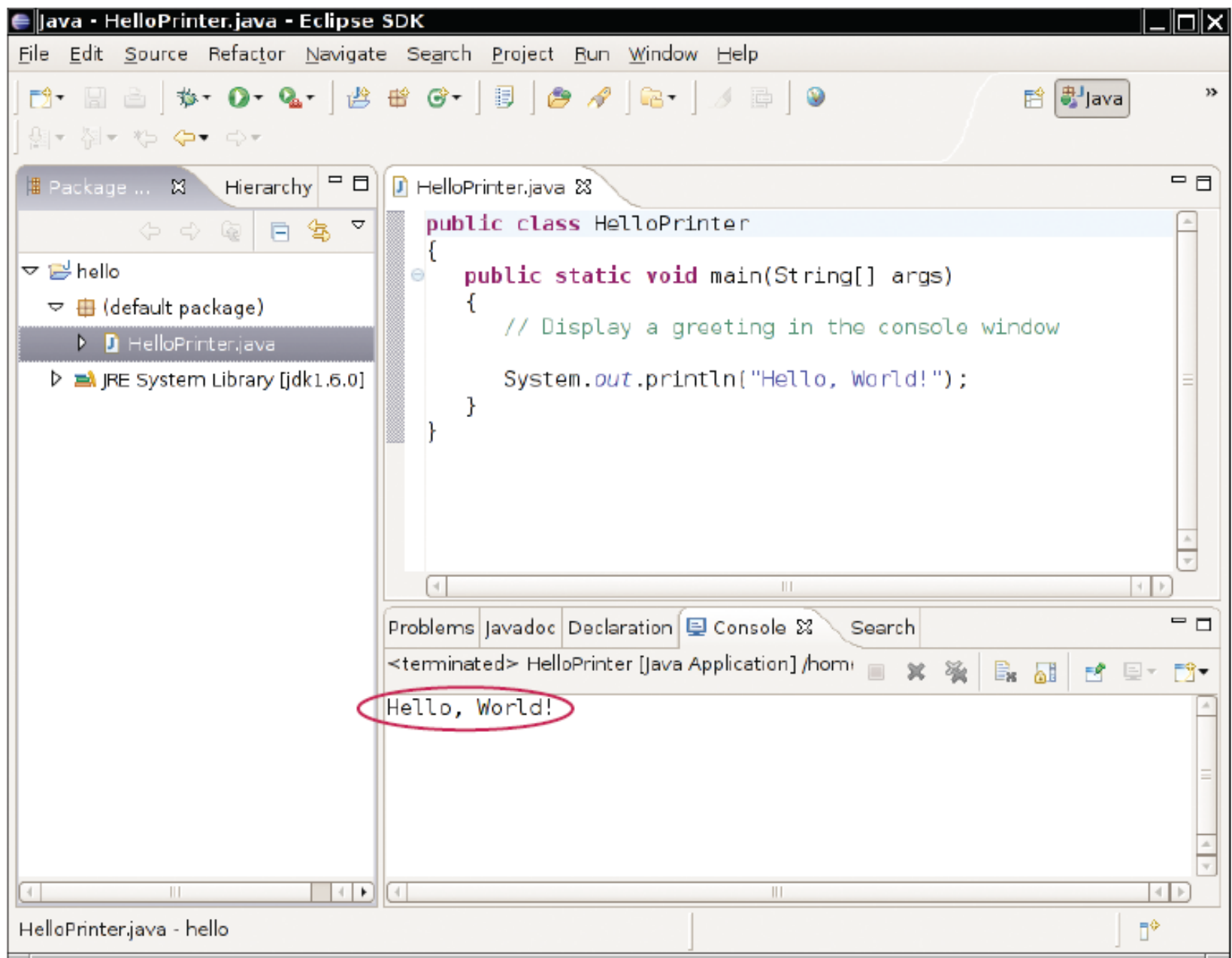
- Java Virtual Machine (JVM)
 - A hypothetical computer that runs Java
 - Each java runtime environment simulates/implements this machine
- Just-In-Time Compilation (JIT)
 - Rather than being interpreted, the Java bytecode (for the simulated machine) is compiled for the native machine.







```
D:\JavaSource\1181\FirstProgram>
D:\JavaSource\1181\FirstProgram>
D:\JavaSource\1181\FirstProgram>
D:\JavaSource\1181\FirstProgram>javac Hello.java
D:\JavaSource\1181\FirstProgram>java Hello
Hello folks!
D:\JavaSource\1181\FirstProgram>
```



Errors

- Syntax / Compiler Errors
 - Errors that are caught at compilation time
- Run-time or Logic Errors
 - Program compiles, but has a *failure* at runtime.

- Console applications
 - support character output to a computer screen in a command window
- Windowed applications
 - create a graphical user interface (GUI)