WRITE-COMPILE-EXECUTE

zyBook 1.6

WRITE

Write source code (instructions in a program)
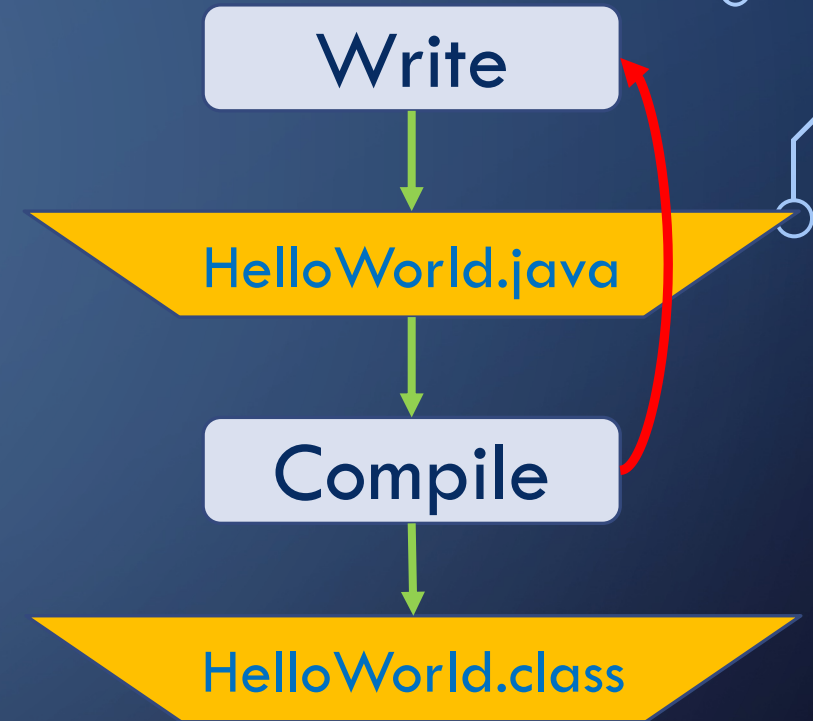
- Written using a programming language (Java)

- Human readable

- Written within a text editor

- The file extension will be .java

Write

HelloWorld.java

COMPILE

Translates program from one language to another

- Byte code: intermediate language that can be run by many computers

- The file extension will be .class

- To compile a program from the UNIX terminal, we use the command javac HelloWorld.java

Write

HelloWorld.java

Compile

HelloWorld.class

EXECUTE

Uses the Java Virtual Machine (JVM) to run the program

- JVM: A theoretical computer whose machine language is the set of Java bytecodes.

- To execute a program from the UNIX terminal, we use the command java HelloWorld (class name)

Write

HelloWorld.java

Compile

HelloWorld.class

Execute

Hello World!