

## Hands-on Experiment # 1

Section \_\_\_\_\_ 1 \_\_\_\_\_ Date \_\_\_\_\_ 6 January 2020 \_\_\_\_\_

Student ID \_\_\_\_\_ Name \_\_\_\_\_

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### Part A: Setting up Java

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1. Find out how to install Java on your operating systems by yourselves. Try googling or searching on YouTube with “how to install java on ...”
2. Follow the instruction and have Java ready for the next part.

### Part B: Compiling and executing Java programs

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1. Follow the source code presented in the lecture slides, write a Java source code called “HelloWorld.java” that will show “Hello World!” on the console screen.
2. Use “javac” to compile “HelloWorld.java” to “HelloWorld.class”.
3. Capture a screenshot showing the existence of “HelloWorld.java” and “HelloWorld.class”. (*Hint: From the console, use the dir command for Windows or the ls command for Linux/OS X*)
4. Use “java” to execute the program. Capture a screenshot showing the output.

### Part C: Syntax Errors

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1. Compile “SyntaxError1.java”. Observe the response. Fix the code so that it gets compiled successfully.
2. Compile “SyntaxError2.java”. Observe the response. Fix the code so that it gets compiled successfully.
3. Compile “SyntaxError3.java”. Observe the response. Fix the code so that it gets compiled successfully.

### Worksheet

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Respond to R1 – R7 below.

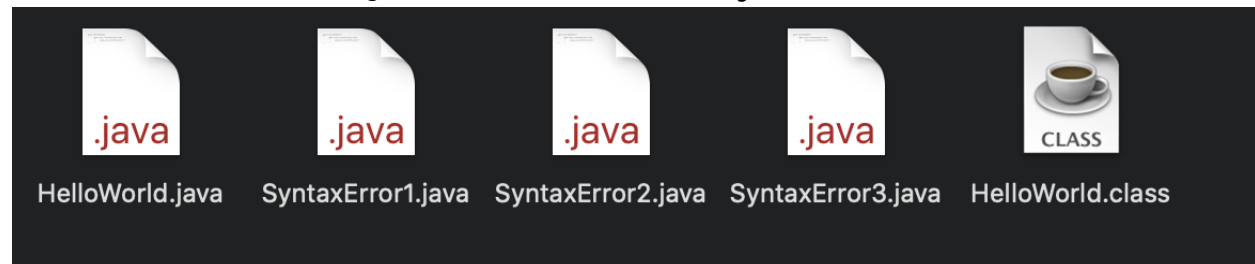
R1. Can you successfully set up Java, write the program, and execute it? (Yes/No)

Yes

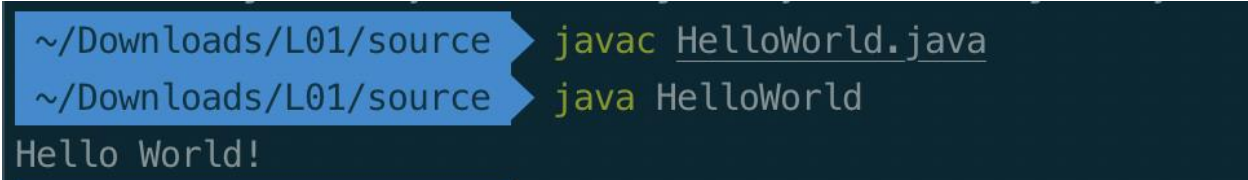
R2. Did you run into any difficulties in setting up Java? If so, explain the difficulties.

No

R3. Insert the screenshot showing the existence of “HelloWorld.java” and “HelloWorld.class”.



R4. Insert the screenshot showing the output of your program.

A screenshot of a terminal window with a dark background. The prompt is '~/.Downloads/L01/source'. The first command is 'javac HelloWorld.java' and the second is 'java HelloWorld'. The output of the second command is 'Hello World!'.

```
~/Downloads/L01/source ➤ javac HelloWorld.java  
~/Downloads/L01/source ➤ java HelloWorld  
Hello World!
```

R5. Explain what was (were) wrong with “SyntaxError1.java”.

There is no ; after the System.out.println.

R6. Explain what was (were) wrong with “SyntaxError2.java”.

There is no double quotes symbol(“ ”) for the message in syntax.

R7. Explain what was (were) wrong with “SyntaxError3.java”.

The name of class is not same as file name(SyntaxError).

Submit this worksheet (by only one member of the group) via <http://www.myCourseVille.com> (Assignments > Hands-on Experiment # 1) before noon of the day after your lecture.