CS570 Assignment 2

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1. Assume you are in the directory ("MyJavaPrograms"). What happens when you compile your program using the command javac HelloWorld.java:

When I ran the following command in terminal:

`javac HelloWorld.java`

No output was shown in the terminal window but checking the directory we can see that a HelloWorld.class file was generated

2. What happens when you compile your program using the -verbose argument

After adding the -verbose flag in and running the compiler the terminal window showed some output. The output seemed to detail information about the compiling process, such as the time it took to parse, compile, etc. As well as directories/locations of my Jre/Jdk and the classes of the various libraries/functions used (Such as println) in the helloworld program

3. What happens when you compile your program using the command javac Hello.World.java

The terminal outputs the following:

`javac: file not found: Hello.World.java`

`Usage: javac <options> <source file>`

`Use -help for a list of possible options`

Revealing that the compiler requires the exact file name in order to compile the java program

4. Assume you are in the parent directory of the directory of the MyJavaPrograms folder. What happens when you compile your program using the command javac HelloWorld.java

Moving out from the working directory to the parent directory, and running javac HelloWorld.java:

The terminal will output:

`javac: file not found: HelloWorld.java`

`Usage: javac <options> <source file>`

`Use -help for a list of possible options`

5. Assume you are in the parent directory of the directory of MyJavaprogarms. What command do you use to compile the file HelloWorld.java?

While remaining in the parent directory of the working directory, we could run (while being in the parent directory):

`javac ProgrammingFoundations\HelloWorld.java`

or in a general case:

`javac [Program/Working Directory]\HelloWorld.java`

Or we could run:

`javac -classpath ProgrammingFoundations ProgrammingFoundations\HelloWorld.java`

or in a general case:

`javac [Program/Working Directory ] [Program/Working Directory]\HelloWorld.java`

6. Assume you are in the directory MyJavaPrograms. What happens when you execute the command java HelloWorld

After running java HelloWorld the terminal outputs:

`Hello World!`

7. What happens when you execute the command java HeloWorld

When running this command the terminal will output:

`Error: Could not find or load main class HeloWorld`

Revealing that one must use the exact class/program name in order to run it

8. Assume you are in the parent directory of the directory of the MyJavaPrograms folder. What command do you have to use to execute the HelloWorld Program?

We can run:

`java -classpath ProgrammingFoundations HelloWorld`

or in a general case:

`java -classpath [Program/Working Directory] HelloWorld`