

CSC207 Lab 1 - Hello World

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Sources: None

We confirm that the above list of sources is complete AND that we have not talked to anyone else (e.g., CSC 207 students) about the solution to this problem.

1. To compile and run Java programs, when do you need to use the `.java` extension? What error do you get when running Java programs using `.class` extension?

The `.java` extension is used when the code is compiled.

Error: Could not find or load main class `*.class`

Caused by: `java.lang.ClassNotFoundException: *.class`

2. What happens if you compile or run a source file that does not exist?

In both cases the program tells us that the file / class doesn't exist.

3. Is Java case-sensitive? You can check this by running the program using `Main` instead of `main` inside your source file.

Yes. the main function needs to be lower-cased.

4. What happens if the signature of the `main` method is not exactly as presented in the lecture e.g., different argument type or number of arguments?

The main method must have one argument which is an array of strings.

5. A big difference between C and Java is that Java functions (methods) need to be placed inside a class. What happens if you declare a function, which returns void, outside a class?

Since you can't have a function out of the class it tells us 'error: class, interface, or enum expected.

6. The other major difference is the presence of **public** and **static** on the definition of the **main** method. Can you remove **public** or **static** keywords without receiving errors?

No, you can't remove them. They are necessary components of the main method.