**Answers to Questions and Exercises: Getting Started**

**Questions**

**Question 1**: When you compile a program written in the Java programming language, the compiler converts the human-readable source file into platform-independent code that a Java Virtual Machine can understand. What is this platform-independent code called?

**Answer 1**: Bytecode.

**Question 2**: Which of the following is *not* a valid comment:

a. /\*\* comment \*/  
b. /\* comment \*/  
c. /\* comment  
d. // comment

**Answer 2**: c is an invalid comment.

**Question 3**: What is the first thing you should check if you see the following error at runtime:

Exception in thread "main" java.lang.NoClassDefFoundError:

HelloWorldApp.java.

**Answer 3**: Check your classpath. Your class cannot be found.

**Question 4**: What is the correct signature of the main method?

**Answer 4**: The correct signature is public static void main(String[] args) or public static void main(String... args)

**Question 5**: When declaring the main method, which modifier must come first, public or static?

**Answer 5**: They can be in either order, but the convention is public static.

**Question 6**: What parameters does the main method define?

**Answer 6**: The main method defines a single parameter, usually named args, whose type is an array of String objects.

**Exercises**

**Exercise 1**: Change the [HelloWorldApp.java](http://docs.oracle.com/javase/tutorial/getStarted/application/examples/HelloWorldApp.java) program so that it displays Hola Mundo! instead of Hello World!.

**Answer 1**: This is the only line of code that must change:

System.out.println("Hola Mundo!"); //Display the string.

**Exercise 2**: You can find a slightly modified version of HelloWorldApp here: [HelloWorldApp2.java](http://docs.oracle.com/javase/tutorial/getStarted/QandE/HelloWorldApp2.java)

The program has an error. Fix the error so that the program successfully compiles and runs. What was the error?

**Answer 2**: Here's the error you get when you try to compile the program:

HelloWorldApp2.java:7: unclosed string literal

System.out.println("Hello World!); //Display the string.

^

HelloWorldApp2.java:7: ')' expected

System.out.println("Hello World!); //Display the string.

^

2 errors

To fix this mistake, you need to close the quotation marks around the string. Here is the correct line of code:

System.out.println("Hello World!"); //Display the string.