### **Exercises**

1. Write a program TenHelloWorlds.java that prints "Hello, World" ten times.

```
package javaapplication1;
public class HelloWorld {
  public static void main(String[] args) {
    for (int x=0;x<10;x++)
     {
      System.out.println("Hello, World");
     }
  }
}</pre>
```

- 2. Describe what happens if, in Helloworld. java, you omit
- a. Public

```
When running an error is thrown by the compiler:

Error: no se ha encontrado el método principal en la clase
javaapplication1.HelloWorld, defina el método principal del
siguiente modo:\n public static void main(String[] args)\nde lo
contrario, se deberá ampliar una clase de aplicación JavaFX
javafx.application.Application
Java Result: 1
BUILD SUCCESSFUL (total time: 0 seconds)
```

b. Static

Error: el método principal no es static en la clase javaapplication1. HelloWorld, defina el método principal del siguiente modo:

```
public static void main(String[] args)
```

Java Result: 1

BUILD SUCCESSFUL (total time: 1 second)

C. Void

Not able to run, because is throwing an error "invalid method declaration"

#### Section 1.1

d. Args

Error: <Identifier> expected

- 3. Describe what happens if, in Helloworld.java, you misspell (by, say, omitting the second letter)
  - a. Public "cannot find symbol" error message
  - b. static "cannot find symbol" error message
  - C. void "cannot find symbol" error message
  - d. args nothing
- 4. Describe what happens if you try to execute Hi.java with:
  - a. java Hi

```
C:\java}java Hi
Hi, Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0
at Hi.main(Hi.java:6)
```

b. java Hi @!&^%

```
C:\java>java Hi @!&^%
Hi, @!. How are you?
"%" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.
```

C. java Hi 1234

```
C:\java>java Hi 1234
Hi, 1234. How are you?
C:\java>_
```

d. java Hi.class Bob

```
C:\java>java Hi.class Bob
Error: no se ha encontrado o cargado la clase principal Hi.class
```

e. java Hi.java Bob

```
C:\java>java Hi.java Bob
Error: no se ha encontrado o cargado la clase principal Hi.java
```

f. java Hi Alice Bob

```
∖java>java Hi Alice Bob
, Alice. How are you?
```

5. Modify UseArgument.java to make a program UseThree.java that takes three names and prints out a proper sentence with the names in the reverse of the order given, so that for example, "java UseThree Alice Bob Carol" gives "Hi Carol, Bob, and Alice.".

```
public class UseArgument {
  public static void main(String[] args) {
    System.out.print("Hi, ");
    System.out.print(args[2]);
    System.out.print(", ");
    System.out.print(args[1]);
    System.out.print(", and ");
    System.out.print(args[0]);
    System.out.println(". How are you?");
  }
```

}

# **Web Exercises**

1. Write a program Initials.java that prints your initials using nine rows of asterisks like the one below.

```
public class Initials {
  public static void main(String[] args) {
    System.out.println(" * ** * * ********* ");
    System.out.println(" *** ** ** ** ** **");
    System.out.println(" ** ** ** ** ** ** **");
    System.out.println(" ** ** ** ** ** ** **");
    System.out.println(" ******** ** ** ** ** **");
    System.out.println(" ** ** ** ** ** ** ** **");
    System.out.println(" ** ** ** ** ** ** ** **");
    System.out.println(" ** ** ** ** ** ** **");
    System.out.println("** ** ** ** ** ** ** **");
    System.out.println("** ** ** ** ** ** ** **");
    System.out.println("** ** ** ** ** ** ** **");
}
```

- 2. Describe what happens if, in HelloWorld. java, you omit
  - a. Main

```
C:\java}javac HelloWorld.java
HelloWorld.java:3: error: <identifier> expected
public static void
1 error
```

b. String

#### C. HelloWorld

```
C:\java>javac HelloWorld.java
HelloWorld.java:1: error: <identifier> expected
public class ( public static void main (
```

# d. System.out

#### e. Println

```
C:\java>javac HelloWorld.java
HelloWorld.java:2: error: cannot find symbol
String [] args> { System_out("Hello World"> ; > }
symbol: method out(String)
location: class System
1 error
```

- 3. Describe what happens if, in Helloworld. java, you omit
  - a. the;

b. the first "

c. the second "

```
C:\java\javac HelloWorld.java
HelloWorld.java:2: error: unclosed string literal
String [] args> { System.out.println("Hello World>; > >
HelloWorld.java:2: error: reached end of file while parsing
String [] args> { System.out.println("Hello World>; > >
2 errors
```

d. the first {

```
C:\java>javac HelloWorld.java
HelloWorld.java:1: error: '{' expected
public class HelloWorld public static void main (
1 error
```

e. the second {

```
C:\java\javac HelloWorld.java
HelloWorld.java:2: error: ';' expected
String [] args\_ System.out.println("Hello World"> ; } }
HelloWorld.java:2: error: class, interface, or enum expected
String [] args\ System.out.println("Hello World"> ; } \
2 errors
```

f. the first }

g. the second }

```
C:\java>javac HelloWorld.java
HelloWorld.java:2: error: reached end of file while parsing
String [] args> {    System.out.println("Hello World"> ;    }
1 error
```

- 4. Describe what happens if, in Helloworld.java, you misspell (by, say, omitting the second letter)
  - a. Main

```
C:\java>javac HelloWorld.java
C:\java>java HelloWorld
Error: no se ha encontrado el método principal en la clase HelloWorld, defina el
método principal del siguiente modo:\n public static void main(String[l args)
\nde lo contrario, se deberá ampliar una clase de aplicación JavaFX javafx.appli
cation.Application
```

b. String

```
C:\java>javac HelloWorld.java
HelloWorld.java:2: error: cannot find symbol
Sring [] args> { System.out.println("Hello World") ; > >
^ symbol: class Sring
location: class HelloWorld
1 error
C:\java>
```

C. HelloWorld

```
C:\java\javac HelloWorld.java
HelloWorld.java:1: error: class HlloWorld is public, should be declared in a fil
e named HlloWorld.java
public class HlloWorld { public static void main {
1 error
```

d. System.out

### Section 1.1

```
C:\java>javac HelloWorld.java
HelloWorld.java:2: error: package Sstem does not exist
String [] args> {    Sstem_out.println("Hello World"> ;    }    }
1 error
```

### e. Println