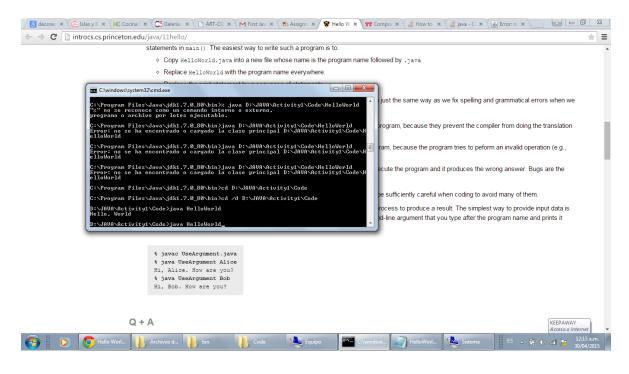
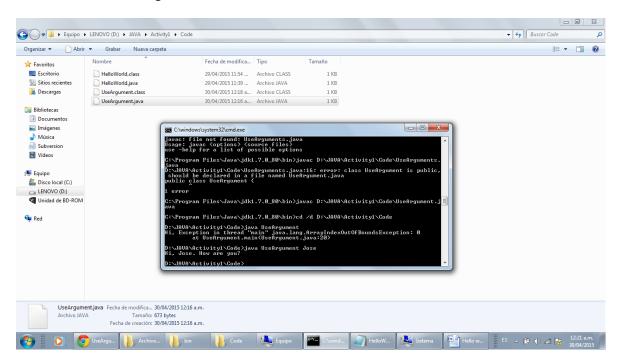
Activity 1, Section 1.1

Run Hello world



Run Hello world with arguments



EXERCISES

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

```
TecheloWordSyne Blocd ontos

Actions Edicate Formato Vir Apuda

Compilation: javac Tennelloworlds.java
Execution: java Tennelloworlds.java
Execution: java Tennelloworlds.java
Execution: java Tennelloworlds

Prints *Nemelloworlds

Frints *Nemelloworlds
```

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

```
C:\windows\system32\cmd.exe

D:\JAUA\Activity1\Code\java TenHelloWorlds
Hello. World
C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAUA\Activity1\Code\HelloWorld.ja

C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAUA\Activity1\Code\HelloWorld.ja

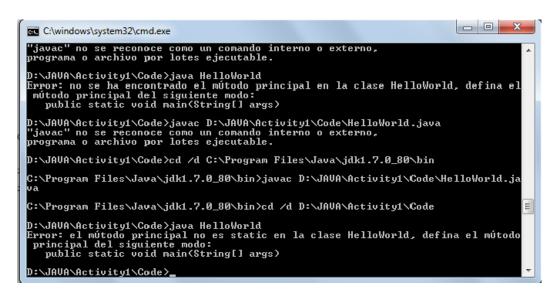
C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAUA\Activity1\Code\HelloWorld.ja

D:\JAUA\Activity1\Code\java HelloWorld

Error: no se ha encontrado el mútodo principal en la clase HelloWorld, defina el mútodo principal del siguiente modo:
    public static void main(String[] args)

D:\JAUA\Activity1\Code\_
```

b. Static



C. Void

```
programa o archivo por lotes ejecutable.

D:\JAVA\Activity1\Code\cd /d C:\Program Files\Java\jdk1.7.0_80\bin

C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\HelloWorld.java

C:\Program Files\Java\jdk1.7.0_80\bin\cd /d D:\JAVA\Activity1\Code

D:\JAVA\Activity1\Code\java HelloWorld

Error: el mútodo principal no es static en la clase HelloWorld, defina el mútodo principal del siguiente modo:
    public static void main(String[] args)

D:\JAVA\Activity1\Code\cd /d C:\Program Files\Java\jdk1.7.0_80\bin\

C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\HelloWorld.javac

D:\JAVA\Activity1\Code\HelloWorld.javac2: error: invalid method declaration; return type required
    public static main(String[] args) {

1 error

C:\Program Files\Java\jdk1.7.0_80\bin\_
```

d. args

```
C:\windows\system32\cmd.exe

D:\JAVA\Activity1\Code\cd /d C:\Program Files\Java\jdk1.7.0_80\bin

C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activity1\Code\TenHelloWorld S.java C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\TenHelloWorld S.java C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\A
```

- 3. Describe what happens if, in HelloWorld. java, you misspell (by, say, omitting the second letter)
 - a. Public

```
C:\Program Files\Java\jdk1.7.0_80\bin>cd /d C:\Program Files\Java\jdk1.7.0_80\bin
C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\TenHelloWorld
s.java
C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\HelloWorld.ja
va
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: \( \text{identifier} \) expected
public static void main\( \text{String}[1] \) \( \text{1} \)
1 error
C:\Program Files\Java\jdk1.7.0_80\bin>cd /d C:\Program Files\Java\jdk1.7.0_80\bin

C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\HelloWorld.ja
va
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: \( \text{identifier} \) expected
pblic_static void main\( \text{String}[1] \) args\( \text{identifier} \) expected

pblic_static void main\( \text{String}[1] \) args\( \text{identifier} \) expected

C:\Program Files\Java\jdk1.7.0_80\bin>
```

b. static

C. void

```
C:\windows\system32\cmd.exe

C:\Program Files\Java\jdk1.7.0_80\bin\javac D:\JAVA\Activity1\Code\HelloWorld.javac D:\JAVA\Activ
```

d. args

The program runs correctly

```
public satic void main(String[] args) {

2 errors

C:\Program Files\Java\jdk1.7.0_80\bin>cd /d C:\Program Files\Java\jdk1.7.0_80\bin

C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\HelloWorld.java:
2: error: cannot find symbol
public static vid main(String[] args) {

symbol: class vid
location: class HelloWorld
1 error

C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\HelloWorld.java

C:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\HelloWorld.java

C:\Program Files\Java\jdk1.7.0_80\bin>cd /d D:\JAVA\Activity1\Code

D:\JAVA\Activity1\Code>java HelloWorld

Hello, World

D:\JAVA\Activity1\Code>_
```

- 4. Describe what happens if you try to execute Hi.java with:
 - a. java Hi

Hi, Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0 at Hi.main(Hi.java:20)

b. 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

Hi, 1234. How are you?

d. java Hi.class Bob

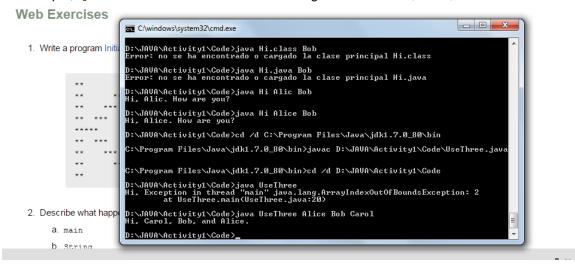
Error: no se ha encontrado o cargado la clase principal Hi.class

e. java Hi.java Bob

Error: no se ha encontrado o cargado la clase principal Hi.java

f. java Hi Alice Bob

Hi, 1234. How are you Modify <u>UseArgument.java</u> to make a program <u>UseThree.java</u> 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.".



Web Exercises

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

```
    **
    ***
    ****
    **
    **
    **

    **
    ***
    **
    **
    **
    **
    **

    **
    ***
    **
    **
    **
    **
    **

    **
    **
    **
    **
    **
    **
    **

    **
    **
    **
    **
    **
    **
    **

    **
    **
    **
    **
    **
    **
    **

    **
    **
    **
    **
    **
    **

    **
    **
    **
    **
    **
    **
```

C:\windows\system32\cmd.exe ::\Program Files\Java\jdk1.7.0_80\bin>cd /d D:\JAVA\Activity1\Code D:\JAVA\Activity1\Code\java UseThree Hi, Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 2 at UseThree.main(UseThree.java:20) d D:\JAVA\Activity1\Code>java UseThree Alice Bob Carol Hi, Carol, Bob, and Alice. D:\JAVA\Activity1\Code>cd /d C:\Program Files\Java\jdk1.7.0_80\bin Wh wir G:\Program Files\Java\jdk1.7.0_80\bin>javac D:\JAVA\Activity1\Code\Initials.java C:\Program Files\Java\jdk1.7.0_80\bin>cd /d D:\JAVA\Activity1\Code D:\JAVA\Activity1\Code>java Initials УS **************** ot D:\JAVA\Activity1\Code>

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

a. Main

```
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: <identifier> expected public static void (String[] ags) {
```

1 error

b. String

D:\JAVA\Activity1\Code\HelloWorld.java:2: error: illegal start of type public static void main([] ags) {

٨

D:\JAVA\Activity1\Code\HelloWorld.java:2: error: ')' expected public static void main([] ags) {

٨

D:\JAVA\Activity1\Code\HelloWorld.java:2: error: ';' expected

```
public static void main([] ags) {
                  ٨
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: illegal start of type
 public static void main([] ags) {
                     Λ
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: <identifier> expected
 public static void main([] ags) {
                      Λ
D:\JAVA\Activity1\Code\HelloWorld.java:2: error: ';' expected
  public static void main([] ags) {
                       ٨
D:\JAVA\Activity1\Code\HelloWorld.java:3: error: illegal start of type
    System.out.println("Hello, World");
       Λ
D:\JAVA\Activity1\Code\HelloWorld.java:3: error: ';' expected
    System.out.println("Hello, World");
          Λ
D:\JAVA\Activity1\Code\HelloWorld.java:3: error: invalid method declaration; ret
urn type required
    System.out.println("Hello, World");
           ٨
```

D:\JAVA\Activity1\Code\HelloWorld.java:3: error: illegal start of type

```
System.out.println("Hello, World");
                   Λ
    D:\JAVA\Activity1\Code\HelloWorld.java:5: error: class, interface, or enum expec
    ted
    }
    11 errors
c. HelloWorld
    D:\JAVA\Activity1\Code\HelloWorld.java:1: error: <identifier> expected
    public class {
           Λ
    1 error
d. System.out
    D:\JAVA\Activity1\Code\HelloWorld.java:3: error: illegal start of expression
        .println("Hello, World");
       Λ
    1 error
e. Println
    D:\JAVA\Activity1\Code\HelloWorld.java:3: error: <identifier> expected
        System.out.("Hello, World");
              Λ
    1 error
```

```
3. Describe what happens if, in HelloWorld.java, you omit
            a. the;
                D:\JAVA\Activity1\Code\HelloWorld.java:3: error: ';' expected
                    System.out.println("Hello, World")
                1 error
            b. the first "
                D:\JAVA\Activity1\Code\HelloWorld.java:3: error: unclosed string literal
                    System.out.println(Hello, World");
                1 error
            c. the second "
                D:\JAVA\Activity1\Code\HelloWorld.java:3: error: unclosed string literal
                    System.out.println("Hello, World);
                D:\JAVA\Activity1\Code\HelloWorld.java:3: error: ';' expected
                    System.out.println("Hello, World);
                D:\JAVA\Activity1\Code\HelloWorld.java:5: error: reached end of file while parsi
                ng
                }
                3 errors
            d. the first {
                D:\JAVA\Activity1\Code\HelloWorld.java:1: error: '{' expected
                public class HelloWorld
                1 error
            e. the second {
                D:\JAVA\Activity1\Code\HelloWorld.java:2: error: ';' expected
                  public static void main(String[] ags)
                D:\JAVA\Activity1\Code\HelloWorld.java:5: error: class, interface, or enum expected
                }
```

2 errors

```
f. the first }
                D:\JAVA\Activity1\Code\HelloWorld.java:5: error: reached end of file while parsing
                Λ
                1 error
            g. the second }
                D:\JAVA\Activity1\Code\HelloWorld.java:4: error: reached end of file while parsi
                 }
                1 error
4. Describe what happens if, in HelloWorld.java, you misspell (by, say, omitting the second letter)
            a. Main
                D:\JAVA\Activity1\Code>java HelloWorld
                Error: no se ha encontrado el metodo principal en la clase HelloWorld, defina el
                metodo principal del siguiente modo:
                 public static void main(String[] args)
            b. String
                D:\JAVA\Activity1\Code\HelloWorld.java:2: error: cannot find symbol
                  public static void main(Sring[] ags) {
                 symbol: class Sring
                 location: class HelloWorld
                1 error
            c. HelloWorld
                D:\JAVA\Activity1\Code\HelloWorld.java:1: error: class HlloWorld is public, shou
                Id be declared in a file named HlloWorld.java
                public class HlloWorld {
                1 error
            d. System.out
                D:\JAVA\Activity1\Code\HelloWorld.java:3: error: package Sstem does not exist
                    Sstem.out.println("Hello, World");
                       ٨
                1 error
```

e. Println

D:\JAVA\Activity1\Code\HelloWorld.java:3: error: cannot find symbol System.out.pintln("Hello, World");

Λ

symbol: method pintln(String)

location: variable out of type PrintStream

1 error

5. I typed in the following program. It compiles fine, but when I execute it, I get the error java.lang.NoSuchMethodError: main. What am I doing wrong?