

Hello World

Print Line

System.out.println() can print to the console:

- System is a class from the core library provided by Java
- out is an object that controls the output
- println() is a method associated with that object that receives a single argument

Comments

Comments are bits of text that are ignored by the compiler. They are used to increase the readability of a program.

- Single line comments are created by using // .
- Multi-line comments are created by starting with
 /* and ending with */.

main() Method

In Java, every application must contain a main() method, which is the entry point for the application. All other methods are invoked from the main() method

The signature of the method is public static void main(String[] args) { }. It accepts a single argument: an array of elements of type String.

Classes

A class represents a single concept.

A Java program must have one class whose name is the same as the program filename.

In the example, the Person class must be declared in a program file named **Person.java**.

```
System.out.println("Hello, world!");
// Output: Hello, world!
```

```
// I am a single line comment!
/*
And I am a
multi-line comment!
*/
```

```
public class Person {
   public static void main(String[] args) {
      System.out.println("Hello, world!");
   }
}
```

```
public class Person {
   public static void main(String[] args) {
        System.out.println("I am a person, not a computer.");
   }
}
```

Compiling Java

code cademy

In Java, when we compile a program, each individual class is converted into a .class file, which is known as byte code.

The JVM (Java virtual machine) is used to run the byte code.

Whitespace

Whitespace, including spaces and newlines, between statements is ignored.

Statements

In Java, a statement is a line of code that executes a task and is terminated with a $\,$; $\,$.

```
# Compile the class file:
javac hello.java

# Execute the compiled file:
java hello
```

```
System.out.println("Example of a
statement");

System.out.println("Another statement");

// Output:
// Example of a statement
// Another statement
```

```
System.out.println("Java Programming =");
```