

# 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 .

```
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!");
```

#### Classes

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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**.

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

## **Compiling Java**

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.

# # Compile the class file: javac hello.java # Execute the compiled file: java hello

### Whitespace

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

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

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

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

#### **Statements**

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

System.out.println("Java Programming (20)");