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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
 */.

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

```
// I am a single line comment!

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

main() Method

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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 <code>public</code> static void <code>main(String[]</code> args) { } . It accepts a single argument: an array of elements of type <code>String</code> .

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**.

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.

```
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.");
  }
}
```

```
# 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

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