



# Java 1: Hello, Java!

*The parts of a program, printing text, and fixing bugs*

NAME \_\_\_\_\_

DATE \_\_\_\_\_

CLASS \_\_\_\_\_

## The Parts of a Java Program

Every Java **program** lives inside a **class**: `public class Hello` makes a class named `Hello`. The program starts at the **main method**, the line `public static void main(String[] args)`. **Braces** `{ }` group code, and every `{` needs a matching `}`. Each instruction inside `main` is a **statement**; every statement ends with a **semicolon** `;`. Statements run **from top to bottom**.

`System.out.println("Hi");` prints `Hi`, then moves to a **new line**. `System.out.print("Hi");` prints `Hi` but **stays on the same line**. Text in double quotes is a **string literal**: it prints exactly as written, spaces and all (the quotes do not print).

A line starting with `//` is a **comment**, a note for people that the computer skips. Java is **case-sensitive**: `System` and `system` are different words.

## 1 Read the Program

```
1 // My first Java program
2 public class Hello {
3     public static void main(String[] args) {
4         System.out.println("Hello, Java!");
5         System.out.print("I am ");
6         System.out.println("learning Java.");
7         // System.out.println("Hidden");
8         System.out.println("Bye!");
9     }
10 }
```

a. Write the **exact output**, one row for each line the program prints.

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b. Line 7 has a `println` in it. Will `Hidden` print? Why or why not?

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## 2 print or println?

```
1 System.out.print("Ready");
2 System.out.print("Set");
3 System.out.println("Go!");
4 System.out.println("3, 2, 1");
5 System.out.print("Blast ");
6 System.out.println("off!");
7 System.out.println("END");
```

a. These lines are inside `main`. Write the exact output, one row per line.

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b. Why is there no space between `Ready` and `Set` in the output?



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**3 Find and Fix the Bugs**

Jordan's program will not compile. It has **4 bugs**. For each bug, write the line number, what is wrong, and the fixed code. (Hint: one bug is a missing line.)

```
1 public class Pets {  
2     public static void main(String[] args) {  
3         System.out.println("I have a dog.")  
4         system.out.println("I have a cat.");  
5         System.out.println("I have a fish.");  
6         System.out.println("I have 3 pets!");  
7     }
```

| Line | What is wrong? | Fixed code |
|------|----------------|------------|
|      |                |            |
|      |                |            |
|      |                |            |
|      |                |            |

**4 Text or Math?**

What does `System.out.println("2 + 3");` print? Explain using the term **string literal**.

**5 Write Your Own Program**

Write a complete program with a class named `AboutMe` that prints **3 lines**: your name, your favorite food, and `My grade is 7th`. Make line 3 with **two** statements: a `print` for `My grade is` and a `println` for `7th`.