

# IntelliJ

Lets get started in our new IDE

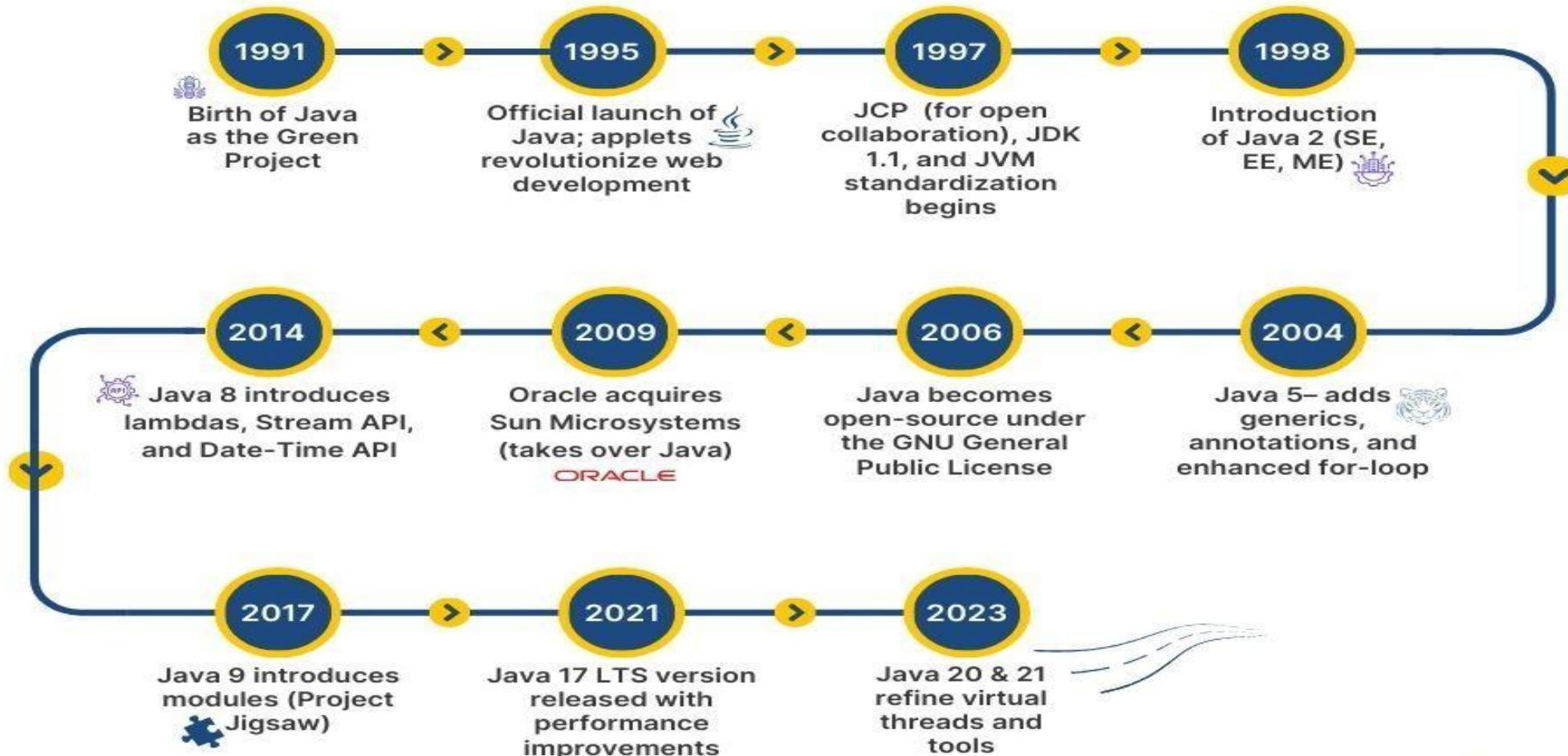
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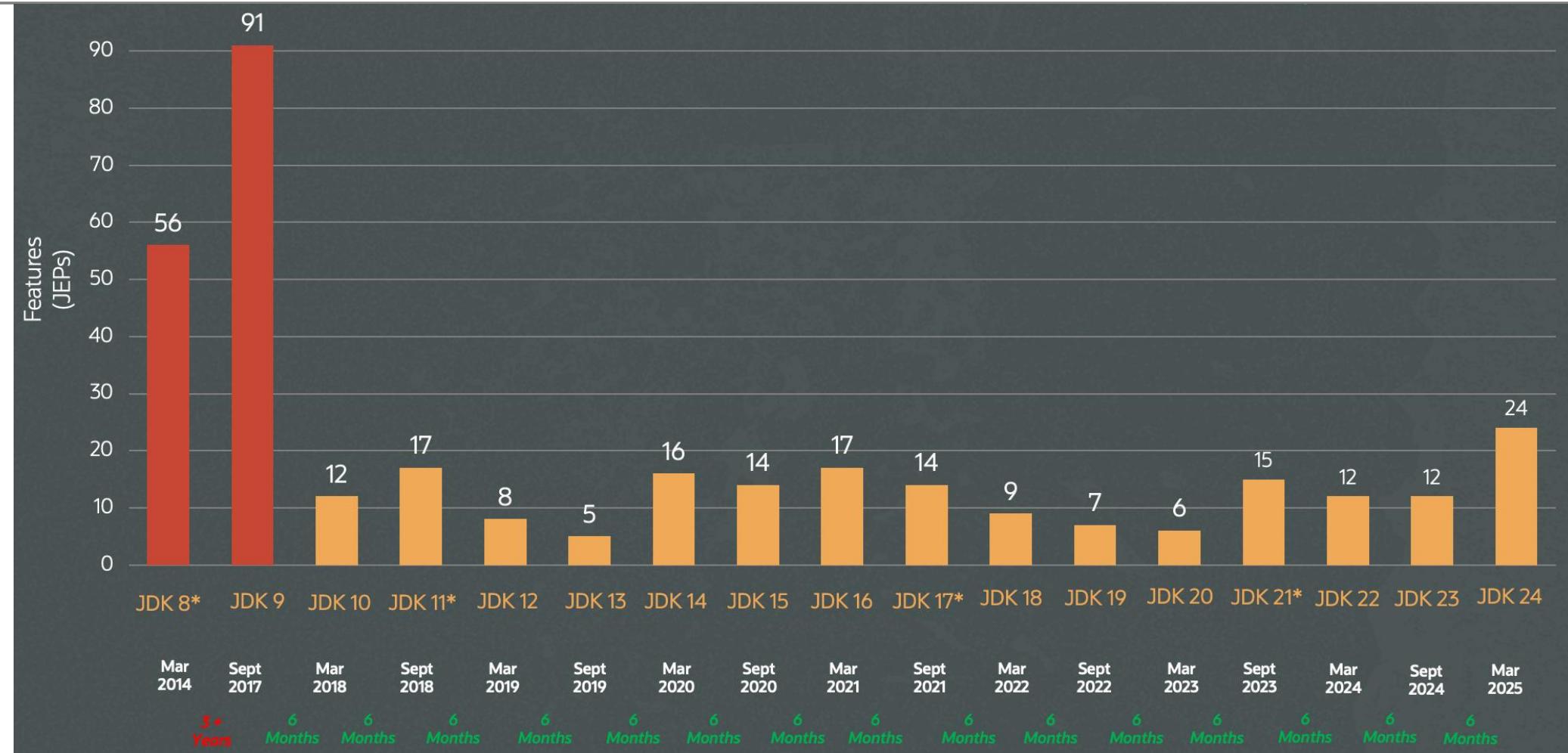


Department of Computing and Mathematics  
<http://www.setu.ie/>

## Timeline– History Of Java



# JDK releases – 6 month cycle



# What version of JDK should I install?

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- The most up to date version that is available
  - Currently Java 25

JDK 25		
The New Features in Java 25		
1	Primitive Patterns	Pattern matching for primitives
2	Compact Sources	Single-file programs with top-level main methods
3	Flexible Constructors	Constructor code before super() or this\$
4	Structure Concurrency	Simplified concurrent programming
5	Scoped Values	Modern and safe context handling
6	Virtual Threads	Lightweight threads for concurrency
7	Vector API	SIMD-style vector operations
8	JFR Enhancements	Improved monitoring and profiling
9	Key Derivation	Standard cryptographic key derivation

# What is an IDE?

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- An IDE (Integrated Development Environment) is a software application that bundles all the necessary tools a programmer needs for software development into a single, easy-to-use graphical interface.
- An IDE (Integrated Development Environment) allows you to
  - quickly create applications by combining a source-code editor with the ability to compile and run your code,
  - integration with build, test and debug tools, version control systems, and so on.
  - search and navigate your codebase in ways your file system won't.

# IntelliJ - An industry standard IDE

jetbrains.com/idea/download/?section=windows

**JETBRAINS**

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**IntelliJ IDEA** JetBrains IDEs Coming in 2025.3 What's New Features Resources

Windows macOS Linux

## IntelliJ IDEA Ultimate

The Leading IDE for Professional Development in Java and Kotlin

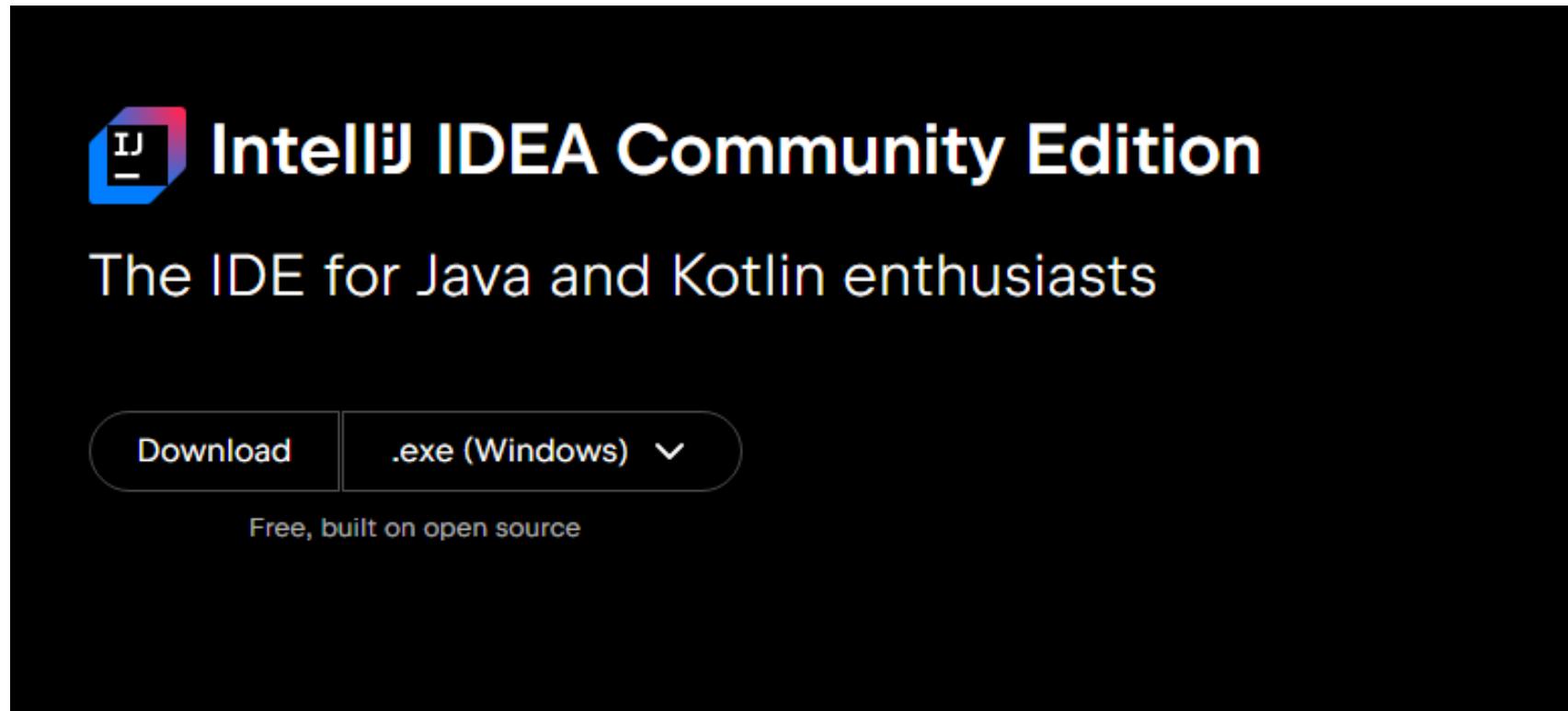
Free 30-day trial

Version: 2025.2.2 System requirements Other versions  
Build: 252.26199.169 19 September 2025 Installation instructions Third-party software

# Community Edition

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- You can scroll past the Ultimate version, and choose the free Community Version

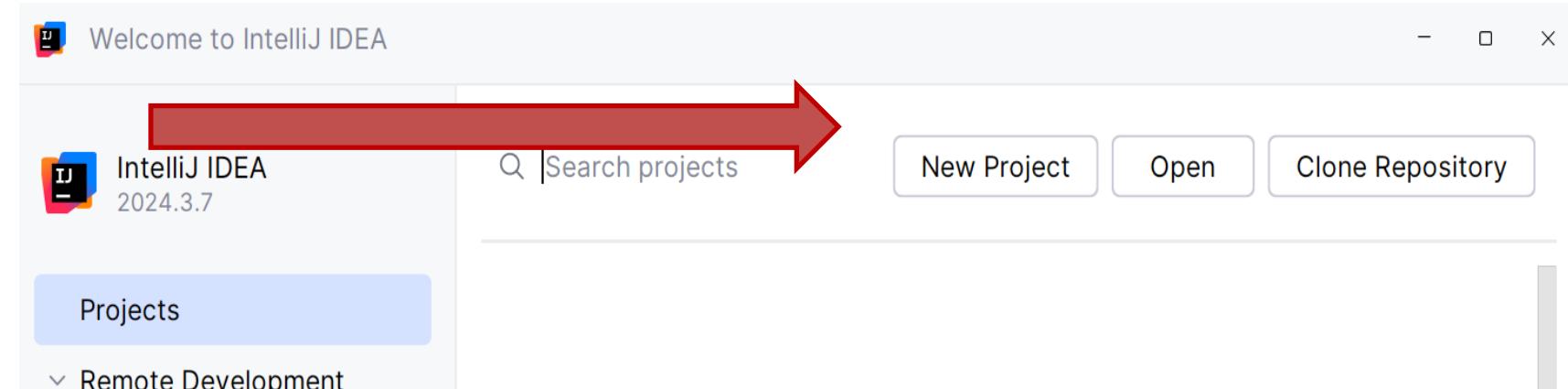


# Hello World

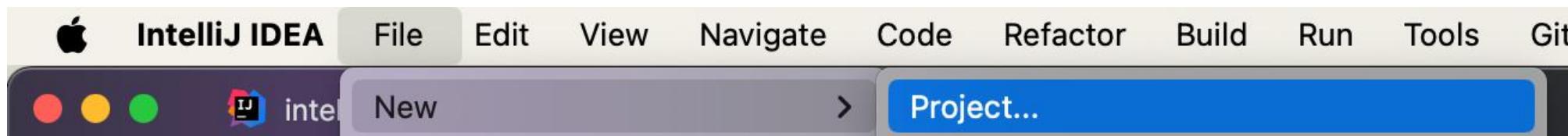
IntelliJ

# Launch IntelliJ

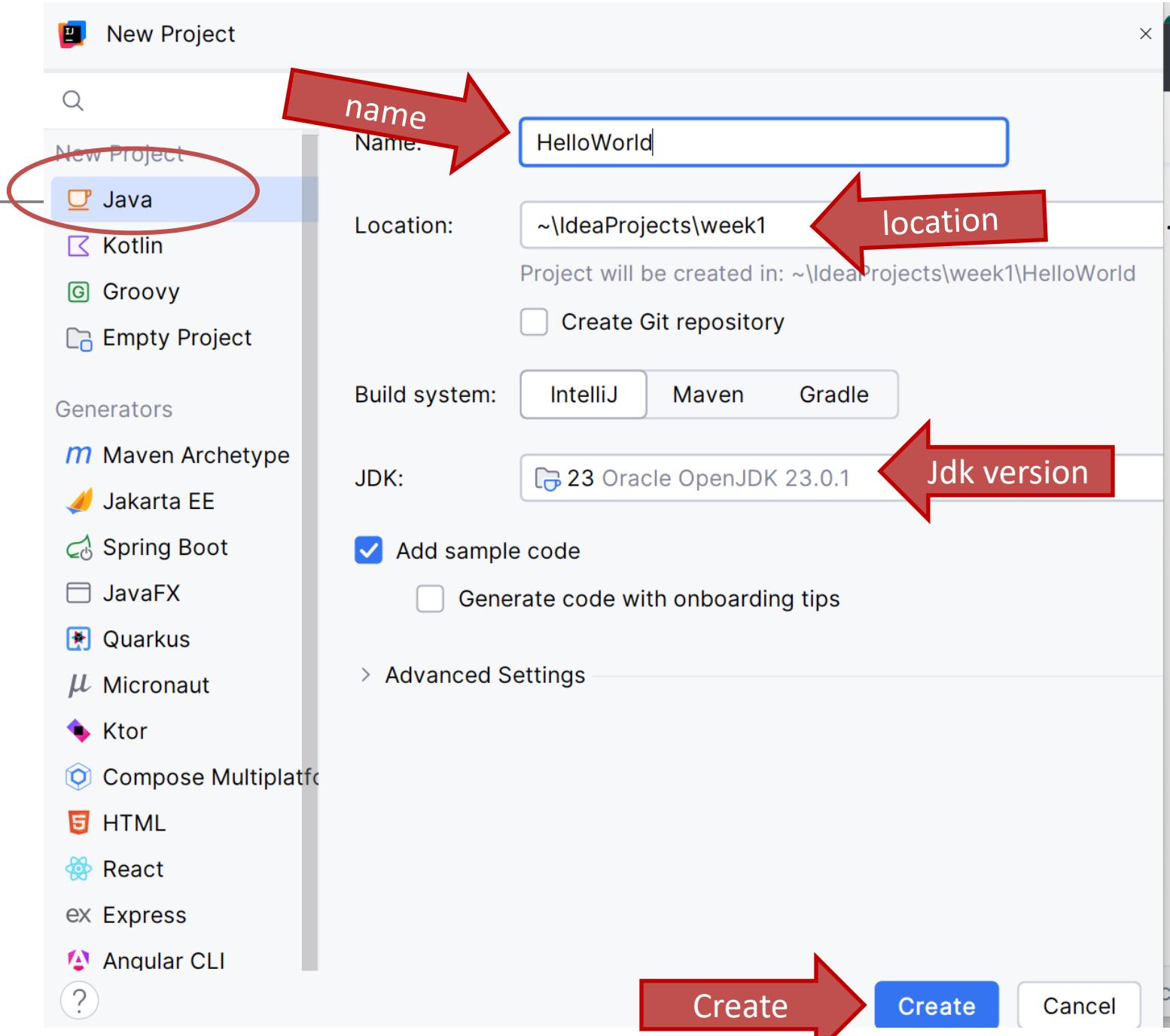
We can create a new project from the **Welcome** screen,



or we can go to **File | New | Project** in the main menu.



# New Java Project



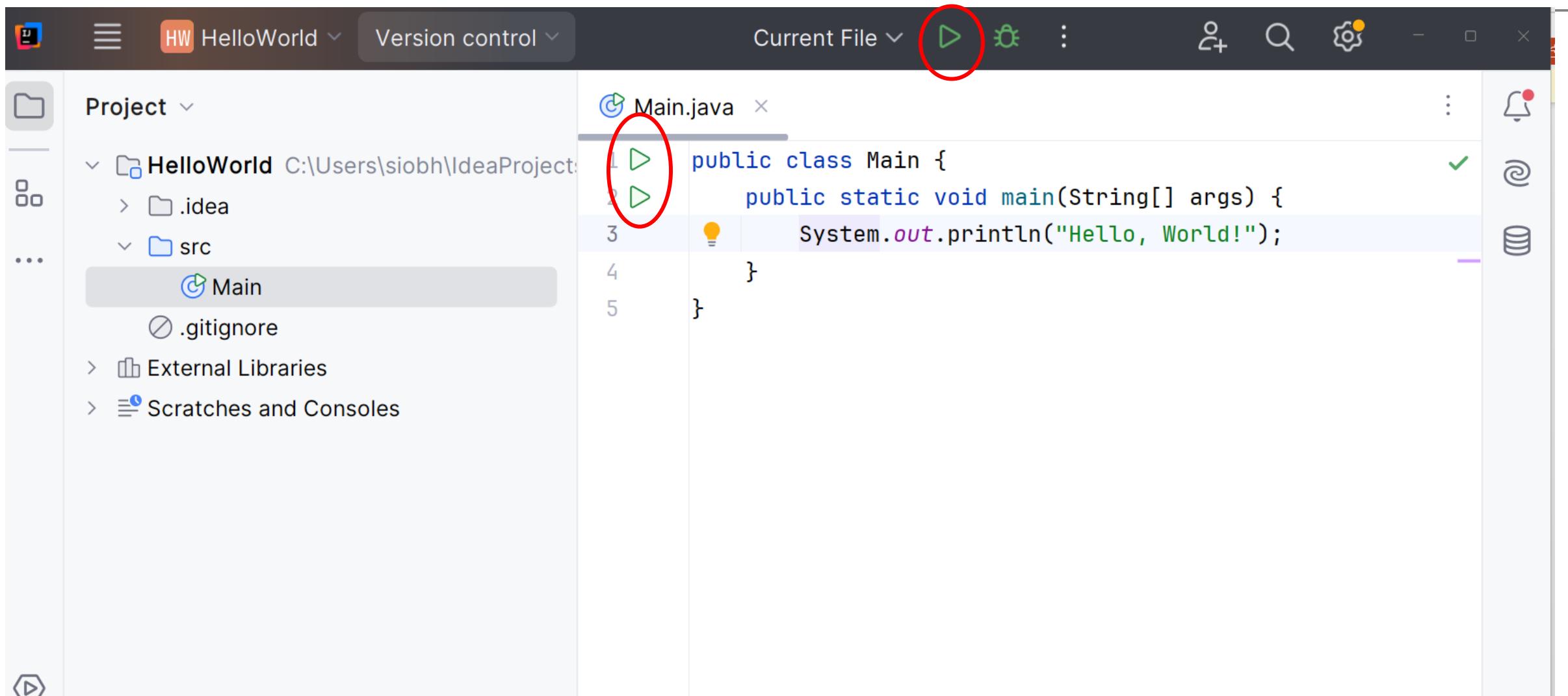
# New Project – main method

The screenshot shows a Java project structure in an IDE. The project is named "HelloWorld" and is located at "C:\Users\siobh\IdeaProjects\HelloWorld". The "src" directory contains a package named "Main" which has a file named "Main.java". The code in "Main.java" is as follows:

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

The IDE interface includes a top bar with icons for file, edit, and version control, and a "Current File" dropdown set to "Main.java". The left sidebar shows the project structure with "Main" selected. The right side is the code editor with syntax highlighting and a status bar at the bottom.

# Run app



# Console output

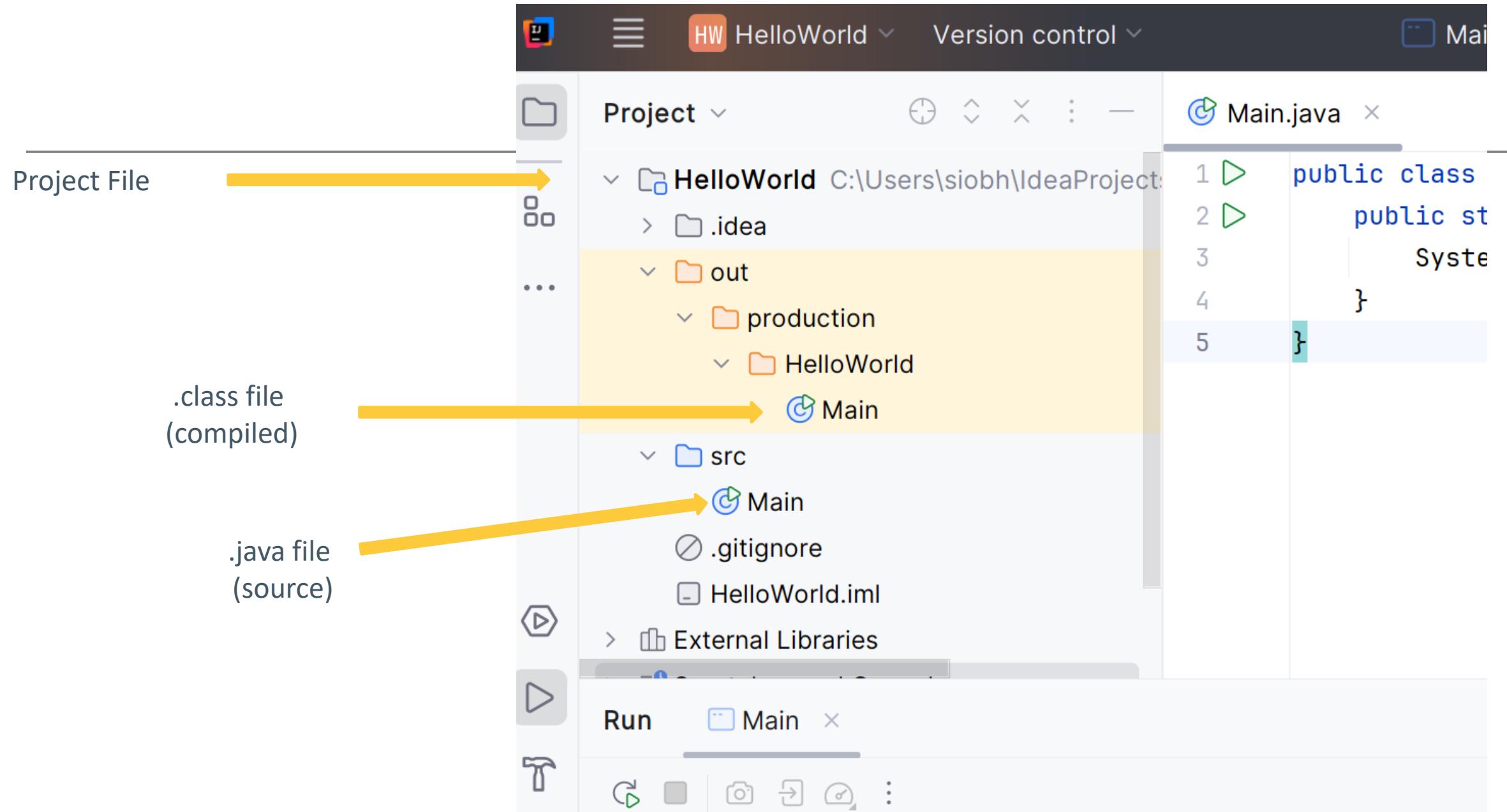
The screenshot shows an IDE interface with the following components:

- Top Bar:** Includes icons for file operations, project navigation, and tabs labeled "HW HelloWorld" and "Version control".
- Project View:** Shows a tree structure of the "HelloWorld" project. The "out" folder is highlighted in yellow.
- Code Editor:** Displays the file "Main.java" with the following code:

```
1 public class Main {  
2     public static void main(String[] args) {  
3         System.out.println("Hello, World!");  
4     }  
5 }
```
- Run Tab:** Shows the run configuration "Main".
- Console Output:** Displays the command used to run the application and the resulting output.

```
C:\Users\siobh\.jdks\openjdk-23.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.2.1\lib\javaprofiler.jar" -Dfile.encoding=UTF-8 Main  
Hello, World!
```

The output line "Hello, World!" is circled in red.
- Status Bar:** Shows the message "Process finished with exit code 0".



# Questions?

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