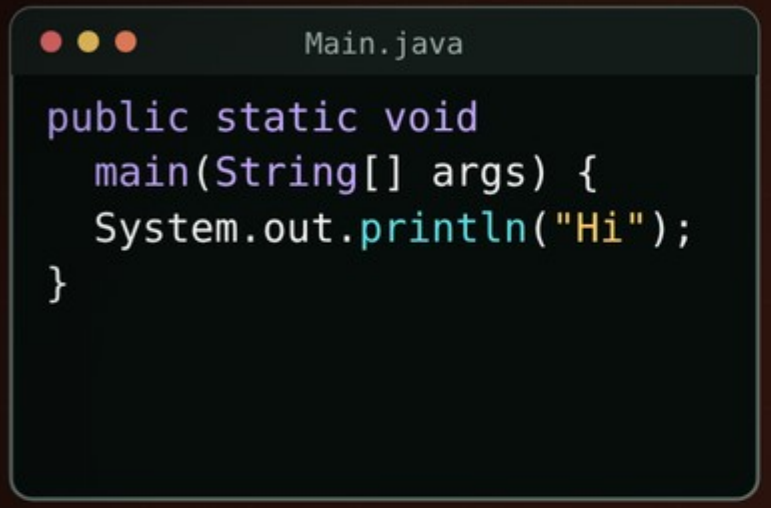
LESSON 1



Java

Welcome to Java

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JAVA PROGRAMMING

LESSON 1

Welcome to Java

The JVM, the JDK, javac, java, JShell and your first program

Why Java?



- Portable — runs on the JVM
- Typed — errors at compile time
- Everywhere — servers · Android · data

01

The JVM: Write Once, Run Anywhere



- Hello.java — source code
- javac — compiler
- Hello.class — bytecode

02

Installing the JDK

terminal

```
$ java --version
openjdk 21.0.4 2024-07-16 LTS
$ javac --version
javac 21.0.4
```

- Install a JDK, the Java Development Kit, such as Eclipse Temurin version 21 or newer, which …
- java dash dash version checks it. Use IntelliJ IDEA Community or VS Code with the Java …

03

Hello, World

Hello.java

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

// $ javac Hello.java && java Hello
// $ java Hello.java          (single file)
```

- Java code lives in classes. The file name must match the public class name. main is where …
- System dot out dot println prints a line. Compile with javac, run with java, or since Java …

04

JShell: Try Code Instantly

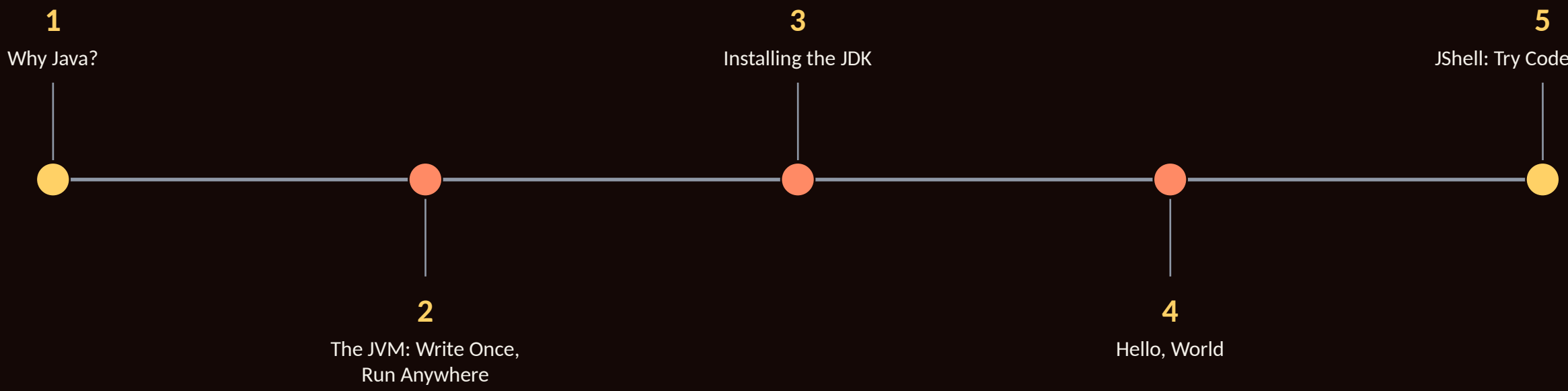
terminal

```
$ jshell
jshell> 6 * 7
$1 ==> 42
jshell> "Kabul".toUpperCase()
$2 ==> "KABUL"
jshell> /exit
```

- JShell is Java's interactive shell. Type an expression and see the result immediately, with …
- It is the fastest way to experiment while you learn.

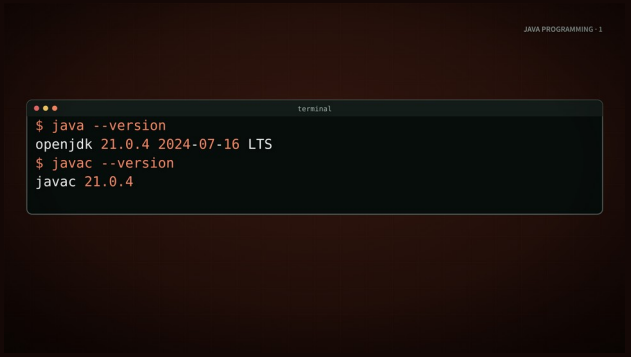
05

Lesson Map


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Why Java?
2
The JVM: Write Once, Run Anywhere
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Installing the JDK
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Hello, World
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JShell: Try Code Instantly

Sources and Further Reading





Thank you for watching

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