Java Setup Documentation (JDK 21)

Title: Java Development Environment Setup Documentation
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1. Introduction

This document explains the installation and configuration of the Java Development Environment using JDK 21, including environment variable setup and verification of compilation and execution.

2. JDK 21 Installation Process

Step 1: Download JDK 21
I downloaded Oracle/OpenJDK 21 (LTS) from the official website.
Version used: JDK 21
Step 2: Install JDK 21
Followed the installation wizard
JDK installation directory:
C:\Program Files\Java\jdk-21

3. Setting Environment Variables

A. Setting JAVA_HOME
Open System Properties ⬛ Advanced ⬛ Environment Variables
Create new variable:
Name: JAVA_HOME
Value:
C:\Program Files\Java\jdk-21
B. Updating PATH
Add the following:
%JAVA_HOME%\bin

4. Verification

Check Java version:
java -version

Output example:
java version "21" 2023-09-01 LTS
Check compiler:
javac -version

Output:
javac 21
Screenshots:
(Compiler & Java version output screenshots included in project)

5. First Program Test

```
public class Hello {
public static void main(String[] args) {
System.out.println("Java setup successful using JDK 21!");
}
}
```

Compile:
javac Hello.java
Run:
java Hello
Output:
Java setup successful using JDK 21!

6. Conclusion

JDK 21 is successfully installed and configured.

Environment variables are correctly set and Java programs compile and run without any issues.