

TASK 1: Java Environment Setup & First Executable Program

Internship Assignment Submission

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Internship Program: Java Development Internship

Task Number: Task 1

Task Title: Java Environment Setup & First Executable Program

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1. Objective

The objective of this task is to:

- Install and configure the Java Development Kit (JDK)
 - Set up the Java environment variables
 - Write, compile, and execute the first Java program
 - Understand the basic Java execution flow
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2. Software & Tools Used

Tool	Description
Operating System	Windows
Java Version	JDK 17 (or installed version)
Editor	Notepad / VS Code
Command Line	Command Prompt

3. Java Environment Setup

3.1 Java Installation

- Downloaded **Java Development Kit (JDK)** from the official website
- Successfully installed JDK on the system

3.2 Environment Variable Configuration

- Created JAVA_HOME system variable pointing to the JDK installation directory
- Added %JAVA_HOME%\bin to the system PATH

3.3 Verification

Command used:

```
java -version
```

```
javac -version
```

Result: Java installed and configured successfully.

4. First Java Program

4.1 Program Code

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

4.2 Compilation

Command used:

```
javac HelloWorld.java
```

Output:

- HelloWorld.class file generated successfully
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4.3 Execution

Command used:

```
java HelloWorld
```

Program Output

Hello, Java World!

5. Java Execution Process

1. Java source code is written in .java file
2. javac compiler converts it into .class bytecode
3. JVM executes the bytecode
4. Output is displayed on the screen

6. Result

The Java environment was set up successfully, and the first Java program was compiled and executed without any errors. The expected output was obtained.

7. Conclusion

This task helped in understanding the basic setup required for Java development. It also provided hands-on experience with writing, compiling, and running a Java program using the command line.

8. Learning Outcome

- Learned Java installation and configuration
 - Understood Java compilation and execution flow
 - Successfully executed the first Java program
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Signature:

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