

## 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

**Submission Date:** 15 / 01 / 2026

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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                |

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### 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.

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## 4. First Java Program

### 4.1 Program Code

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

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### 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!

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## 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

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## **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.

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## **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.

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## **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:**

**Shashi Sharma**