1. Download Java JDK

☐ Official Oracle JDK (Recommended)

1. Open your browser and go to the official Java download page:
   https://www.oracle.com/java/technologies/downloads/
2. Choose your operating system (Windows / macOS / Linux).
3. Select the installer file for your system (e.g., Windows x64 `.exe`).
4. Click **Download** and save the file.

2. Install Java JDK on Windows

Here's how to install the JDK you just downloaded:

1. Go to your **Downloads** folder.
2. Double-click the downloaded `.exe` file to run the installer.
3. Click **Next** through the setup wizard and accept the license.
4. Choose the installation folder (default is fine).
5. Wait a moment until installation finishes.
6. Click **Close**.

3. Verify the Installation

After installing, check if Java is installed correctly:

1. Open **Command Prompt**:
   - Press **Windows key + R**
   - Type `cmd` and press Enter
2. Type:
3. `java -version`
4. `javac -version`

If installed correctly, you'll see the Java version printed (e.g., `java version "21"`).

4. (Optional but Important) Set JAVA_HOME Environment Variable

This helps tools like Maven, Gradle, and IDEs (e.g., IntelliJ / Eclipse) find Java.

1. Open **System Properties** → Search "Environment Variables"
2. Click **Environment Variables**
3. Under *System variables*, click **New**
   - Variable name: `JAVA_HOME`
   - Variable value: Path to your JDK folder (e.g., `C:\Program Files\Java\jdk-21`)

4. Find the `Path` variable → **Edit**
5. Add:
6. `%JAVA_HOME%\bin`
7. Save and Restart your computer

Now Java works everywhere on your system.

Run your first java program

1.open notepad

2. write

class FirstProgram{

public static void main(String args[])

{

System.out.println("Hello Java!");

}

}

3. save as First.java

4.open CMD

5. write : javac First.java

Java first.java

You will get your output