## Practical:01

Aim: Installation of Java on Unix/Linux Machine (Without VirtualBox)

This guide uses WSL (Windows Subsystem for Linux) to simulate a Linux environment directly on Windows.

Step 1: Enable WSL

- 1. Open PowerShell as Administrator
- 2. Run the following command:

wsl --install

- 3. Restart your computer when prompted.
- 4. After restart, choose Ubuntu or install it from the Microsoft Store.

Step 2: Open Ubuntu (WSL)- Search for 'Ubuntu' in Start Menu and open it.- It will initialize and ask for a username and password.

Step 3: Update the Package List

Run the following command:

sudo apt update

Step 4: Install Java (OpenJDK 8 or 11)- For Java 8:

sudo apt install openjdk-8-jdk -y- For Java 11:

sudo apt install openjdk-11-jdk -y

Step 5: Verify Java Installation

Run:

java -version Expected

output:

openjdk version "1.8.0 xxx" ...

Step 6: Set JAVA\_HOME Environment Variable (Optional)

1. Open .bashrc file:

nano ~/.bashrc

2. Add the following lines at the end:

export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64

export PATH=\$JAVA\_HOME/bin:\$PATH

- 3. Save and exit (Ctrl+X, then Y, then Enter)
- 4. Reload bashrc: source ~/.bashrc
- 5. Verify JAVA\_HOME is set:

echo \$JAVA\_HOME

You now have Java installed on a Linux system simulated within Windows without using

## VirtualBox





