PRACTICAL – 01

AIM : Installation of java on Unix/Linux Machine (without using VirtualBox).

Description:

In this practical, we install Java directly on a Unix/Linux machine. Since no virtualization software like VirtualBox is used, the installation is performed natively on the operating system. The steps involve downloading or using the package manager to get the required Java version, setting up environment variables, and verifying the installation.

PROCEDURE :

Step 1: Enable WSL(Windows Subsystem for Linux)

- Open PowerShell as Administrator
- Run the following command:

  wsl –install

- Restart your computer when prompted. 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:

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 :

java -version

Step 6: Set JAVA_HOME Environment Variable (Optional)

- Open .bashrc file:

  nano ~/.bashrc

- Add the following lines at the end:

  export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64

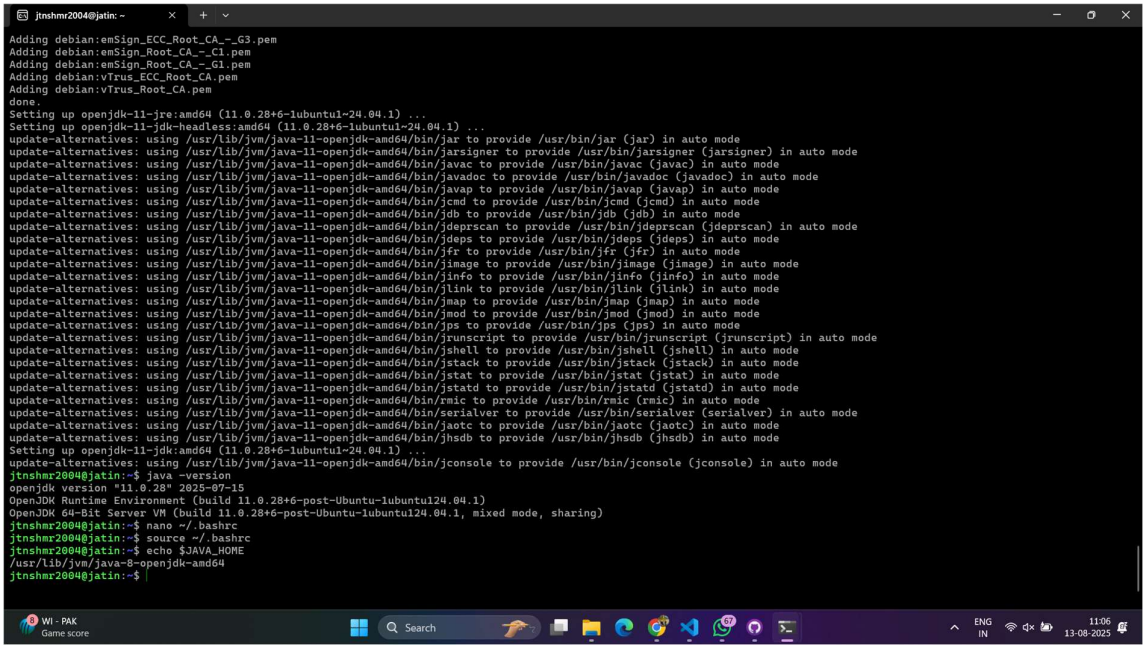
  export PATH=$JAVA_HOME/bin:$PATH

- Save and exit (Ctrl+X, then Y, then Enter)
- Reload bashrc:

  source ~/.bashrc

- Verify JAVA_HOME is set:

  echo $JAVA_HOME



Conclusion:

Java was successfully installed and configured on the Unix/Linux machine, and the system is ready to compile and run Java programs.