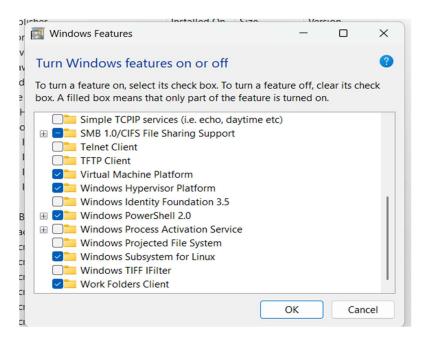
AIM: Installation of Java on Unix/Linux Machine (Without Virtual Box)

Step 1:

Enable WSL (Windows Sub System for Linux) from Control Pannel



Step 2: Power Shell (Run As Administrator)

Command: wsl --install

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\WINDOWS\system32> wsl --install
Downloading: Windows Subsystem for Linux 2.5.10
Installing: Windows Subsystem for Linux 2.5.10

Installing: Windows Subsystem for Linux 2.5.1
```

Anurag PRACTICAL No. 1

Step 3: Package Update

Command: sudo apt update

```
[Sudo] password for trann:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Htt:2 http://archive.ubuntu.com/ubuntu noble-padates InRelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-padates InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [878 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [878 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [212 B]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [212 B]
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Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [212 B]
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Get:15 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:15 http://security.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]

30% [15 Packages 301 kB/15.0 MB 598]

40% [15 Packages 301 kB/15.0 MB 598]

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```

Step 4: Java Installation

Command: sudo apt install openjdk-11-jdk -y

Step 5: Verify Java Installation

Command: java -version

```
taran@DESKTOP-SFROC2F:~$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu124.04.1, mixed mode, sharing)
```

Step 6: Set JAVA_HOME Environment Variable

```
colored GCC warnings and errors
export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'
Alias definitions.
You may mant to put all your additions into a separate file like
~/.bash_aliases, instead of adding them here directly.
See /usr/share/doc/bash-doc/examples in the bash-doc package.
 f [ -f ~/.bash_aliases ]; then
. ~/.bash_aliases
 enable programmable completion features (you don't need to enable
this, if it's already enabled in /etc/bash.bashrc and /etc/profile
sources /etc/bash.bashrc).
 sources /etc/main.mainre/.
f | shopt -oq posis; the
if [ = / usr/share/bash-completion/bash_completion ]; then
/usr/share/bash-completion/bash_completion
elif [ = / etc/mash_completion ]; then
/etc/bash_completion ]; then
 export JAVA_HOME=/usr/Lib/jvm/java-11-openjdk-amd64
                                             ^W Where Is
^\ Replace
                                                                                           ^T Execute
^J Justify
                                                                                                                  ^C Location
^/ Go To Line
                                                                                                                                                                 M-A Set Mark
M-6 Copy
                                                                                                                                                                                       M-] To Bracket
^0 Where Was
^G Help
^X Exit
                                                                    ^K Cut
^U Paste
                                                                                                                                         M-U Undo
M-E Redo
```

```
taran@DESKTOP-SFROC2F:~$ nano ~/.bashrc
taran@DESKTOP-SFROC2F:~$ source ~/.bashrc
taran@DESKTOP-SFROC2F:~$ echo $JAVA_HOME
/usr/lib/java-11-openjdk-amd64
taran@DESKTOP-SFROC2F:~$
```